

# ChIPmentation Kit for Histones C01011009

# **Flyleaf**

Date of compilation: 2021-02-22

#### **Bill of materials**

Name of substance	Identifier	Number of pieces	Classification acc. to GHS	Pictograms	Page
Protease Inhibitor Mix		1			3 – 11
5% BSA		1			12 – 19
rabbit IgG		1			20 - 28
H3K4me3 polyclonal anti- body		1	Skin Sens. 1 / H317	<u>(!</u> )	29 - 38
ChIP-seq grade Myo- globin exon 2 primer pair		1			39 – 46
ChIP-seq grade GAPDH TSS primer pair		1			47 - 54
Tagmentase (Tn5 trans- posase) - loaded		1			55 - 62
2x High-Fidelity Master- mix		1			63 - 70
100x SYBR		1			71 – 78
Glycine		1			79 – 86
Shearing Buffer S1		1	Eye Irrit. 2 / H319 Aquatic Chronic 3 / H412	<u>(!)</u>	87 - 95
DiaMag protein A-coated magnetic beads		1			96 – 103
wash buffer iW1		1	Eye Irrit. 2 / H319 Aquatic Chronic 3 / H412	<u>(!</u> )	104 - 113
Wash buffer iW2		1	Eye Irrit. 2 / H319 Aquatic Chronic 3 / H412	<u>(!)</u>	114 - 122
Wash buffer iW3		1			123 – 131
ChIP-seq grade water		1			132 – 139
Lysis Buffer iL2		1			140 – 147
lysis buffer iL1		1	Aquatic Chronic 3 / H412		148 – 156



# ChIPmentation Kit for Histones C01011009

# **Flyleaf**

Date of compilation: 2021-02-22

Name of substance	Identifier	Number of pieces	Classification acc. to GHS	Pictograms	Page
5x ChIP Buffer iC1		1	Eye Dam. 1 / H318 Aquatic Chronic 2 / H411		157 – 167
Tagmentation buffer		1	Flam. Liq. 3 / H226 Eye Irrit. 2 / H319 Repr. 1B / H360D		168 - 179
wash buffer tagW1		1			180 – 187
Wash Buffer tagW2		1	Eye Irrit. 2 / H319 Aquatic Chronic 3 / H412	<u>(!</u> )	188 – 196
Stripping Reagent		1			197 – 204
MgCl2		1			205 – 212
resuspension buffer		1			213 – 220



according to Regulation (EC) No. 1907/2006 (REACH)

#### **Protease Inhibitor Mix**

version number: GHS 2.0 revision: 2020-02-28 replaces version of: 2019-11-29 (GHS 1)

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1 product identifier

trade name

registration number (REACH)

product code(s)

**Protease Inhibitor Mix** 

not relevant (mixture)

C12010010/C12010011/C12010012

## 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses

for research use only, not for use in diagnostic or therapeutic procedures.

#### 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

#### 1.4 emergency telephone number

emergency information service

+32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre			
country	name	telephone	
United Kingdom	National Poisons Information Service	111	

#### **SECTION 2: Hazards identification**

#### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

#### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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according to Regulation (EC) No. 1907/2006 (REACH)

#### **Protease Inhibitor Mix**

version number: GHS 2.0 revision: 2020-02-28 replaces version of: 2019-11-29 (GHS 1)

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

description of the mixture

#### **SECTION 4: First aid measures**

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

#### 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

#### 4.3 indication of any immediate medical attention and special treatment needed

none

#### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

#### 5.2 special hazards arising from the substance or mixture

hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO2)

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

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according to Regulation (EC) No. 1907/2006 (REACH)

#### **Protease Inhibitor Mix**

version number: GHS 2.0 revision: 2020-02-28 replaces version of: 2019-11-29 (GHS 1)

#### **SECTION 6: Accidental release measures**

#### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

#### 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

#### 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

#### advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

#### 7.2 conditions for safe storage, including any incompatibilities

#### 7.3 specific end use(s)

see section 16 for a general overview.

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according to Regulation (EC) No. 1907/2006 (REACH)

### **Protease Inhibitor Mix**

version number: GHS 2.0 revision: 2020-02-28 replaces version of: 2019-11-29 (GHS 1)

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 control parameters

this information is not available.

### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

#### skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties

#### appearance

physical state	liquid
colour	colourless
odour	odourless

#### other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)

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according to Regulation (EC) No. 1907/2006 (REACH)

## **Protease Inhibitor Mix**

version number: GHS 2.0 revision: 2020-02-28 replaces version of: 2019-11-29 [GHS 1]

explosive limits	not determined
vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	not determined

#### partition coefficient

- n-octanol/water (log KOW)	this information is not available
auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none

# 9.2 other information there is no additional information

#### **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

oxidisers

#### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

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according to Regulation (EC) No. 1907/2006 (REACH)

#### **Protease Inhibitor Mix**

version number: GHS 2.0 revision: 2020-02-28 replaces version of: 2019-11-29 (GHS 1)

#### **SECTION 11: Toxicological information**

#### 11.1 information on toxicological effects

test data are not available for the complete mixture.

#### classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### acute toxicity

shall not be classified as acutely toxic.

#### skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

#### serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

#### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

#### carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

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according to Regulation (EC) No. 1907/2006 (REACH)

# **Protease Inhibitor Mix**

version number: GHS 2.0 revision: 2020-02-28 replaces version of: 2019-11-29 (GHS 1)

#### 12.6 other adverse effects

data are not available.

#### **SECTION 13: Disposal considerations**

#### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information**

14.1 UN number not subject to transport regulati	ations
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14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

14.4 packing group not assigned to a packing group

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

#### 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR, RID and ADN.

#### **International Maritime Dangerous Goods Code (IMDG)**

not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

#### **SECTION 15: Regulatory information**

#### 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

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according to Regulation (EC) No. 1907/2006 (REACH)

# **Protease Inhibitor Mix**

version number: GHS 2.0 revision: 2020-02-28 replaces version of: 2019-11-29 (GHS 1)

## **SECTION 16: Other information**

# indication of changes (revised safety data sheet)

section	former entry (text/value)	actual entry (text/value)	safety-rel evant
1.1	trade name: protease inhibitor coctail	trade name: Protease Inhibitor Mix	yes
1.1	product code(s): C12010011	product code(s): C12010010/C12010011/C12010012	yes
2.3	other hazards: this material is combustible, but will not ignite read- ily.	other hazards	yes
3.2	mixtures	mixtures: description of the mixture	yes
9.1	initial boiling point and boiling range: 189 °C at 1,013 hPa	initial boiling point and boiling range: not determined	yes
9.1	flash point: 87 °C at 1,013 hPa	flash point: not determined	yes
9.1	explosive limits	explosive limits: not determined	yes
9.1	lower explosion limit (LEL): 2.6 vol%		yes
9.1	upper explosion limit (UEL): 28.5 vol%		yes
9.1	vapour pressure: 0.417 mmHg at 20 °C	vapour pressure: not determined	yes
9.1	auto-ignition temperature: 300 °C (auto-ignition temperature (liquids and gases))	auto-ignition temperature: not determined	yes
9.2	other information	other information: there is no additional information	yes
9.2	temperature class (EU, acc. to ATEX): T3 (maximum permissible surface temperature on the equipment: 200°C)		yes
14.3	transport hazard class(es): not assigned	transport hazard class(es): none	yes
14.4	packing group: not assigned	packing group: not assigned to a packing group	yes
14.7	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN)		yes
14.7	identifier number: 9003		yes
14.7	proper shipping name: SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C AND NOT MORE THAN 100 °C		yes
14.7	class: 9		yes
14.7	number of cones/blue lights: 0		yes

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according to Regulation (EC) No. 1907/2006 (REACH)

### **Protease Inhibitor Mix**

version number: GHS 2.0 revision: 2020-02-28 replaces version of: 2019-11-29 [GHS 1]

section	former entry (text/value)	actual entry (text/value)	safety-rel- evant
14.7	transport of dangerous goods by road, rail and in- land waterway (ADR/RID/ADN): not subject to ADR. not subject to RID.	transport of dangerous goods by road, rail and in- land waterway (ADR/RID/ADN): not subject to ADR, RID and ADN.	yes

#### abbreviations and acronyms

abbr.	descriptions of used abbreviations	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	
PBT	Persistent, Bioaccumulative and Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
vPvB	Very Persistent and very Bioaccumulative	

#### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### classification procedure

physical and chemical properties: the classification is based on tested mixture.

health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

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according to Regulation (EC) No. 1907/2006 (REACH)

#### **5% BSA**

version number: GHS 1.0 date of compilation: 2019-11-22

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 product identifier

trade name 5% BSA

registration number (REACH) not relevant (mixture)

#### 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

#### 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

#### 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

#### **SECTION 2: Hazards identification**

#### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

## 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

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# diagendie Innovating Epigenetics Solutions

# **Safety Data Sheet**

according to Regulation (EC) No. 1907/2006 (REACH)

#### **5% BSA**

version number: GHS 1.0 date of compilation: 2019-11-22

#### 3.2 mixtures

#### **SECTION 4: First aid measures**

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

#### 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

#### 4.3 indication of any immediate medical attention and special treatment needed

none

#### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

#### 5.2 special hazards arising from the substance or mixture

hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO2)

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

#### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

#### for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

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according to Regulation (EC) No. 1907/2006 (REACH)

#### **5% BSA**

version number: GHS 1.0 date of compilation: 2019-11-22

#### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

#### 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

#### 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

#### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

frost

#### 7.3 specific end use(s)

see section 16 for a general overview.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 control parameters

this information is not available.

#### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

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according to Regulation (EC) No. 1907/2006 (REACH)

#### **5% BSA**

version number: GHS 1.0 date of compilation: 2019-11-22

#### skin protection

#### - hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties appearance

physical state	liquid	
colour	whitish yellow	
odour	odourless	

#### other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined
vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	not determined

## partition coefficient

- n-octanol/water (log KOW)	this information is not available
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according to Regulation (EC) No. 1907/2006 (REACH)

### **5% BSA**

version number: GHS 1.0 date of compilation: 2019-11-22

auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none
other information	there is no additional information

# **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

9.2

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

oxidisers

#### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

#### **SECTION 11: Toxicological information**

#### 11.1 information on toxicological effects

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

germ cell mutagenicity

shall not be classified as germ cell mutagenic.

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according to Regulation (EC) No. 1907/2006 (REACH)

#### **5% BSA**

version number: GHS 1.0 date of compilation: 2019-11-22

#### carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 other adverse effects

data are not available.

#### **SECTION 13: Disposal considerations**

#### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

#### waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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according to Regulation (EC) No. 1907/2006 (REACH)

#### **5% BSA**

version number: GHS 1.0 date of compilation: 2019-11-22

#### **SECTION 14: Transport information**

**14.1 UN number** not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

14.4 packing group not assigned to a packing group

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

#### 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR, RID and ADN.

#### **International Maritime Dangerous Goods Code (IMDG)**

not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

#### **SECTION 15: Regulatory information**

## 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### abbreviations and acronyms

abbr.	descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code

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according to Regulation (EC) No. 1907/2006 (REACH)

## **5% BSA**

version number: GHS 1.0 date of compilation: 2019-11-22

abbr.	descriptions of used abbreviations
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
vPvB	Very Persistent and very Bioaccumulative

#### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### classification procedure

physical and chemical properties: the classification is based on tested mixture.

health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

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according to Regulation (EC) No. 1907/2006 (REACH)

# rabbit IgG

version number: GHS 1.0 date of compilation: 2019-12-02

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 product identifier

trade name rabbit IgG

registration number (REACH) not relevant (mixture)

product code(s) C15410206

#### 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

#### 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

#### 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

#### **SECTION 2: Hazards identification**

#### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

#### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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according to Regulation (EC) No. 1907/2006 (REACH)

# rabbit IgG

version number: GHS 1.0 date of compilation: 2019-12-02

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

description of the mixture

#### **SECTION 4: First aid measures**

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

#### 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

#### 4.3 indication of any immediate medical attention and special treatment needed

none

#### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

#### 5.2 special hazards arising from the substance or mixture

hazardous combustion products

nitrogen oxides (NOx)

# 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

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according to Regulation (EC) No. 1907/2006 (REACH)

# rabbit IgG

version number: GHS 1.0 date of compilation: 2019-12-02

#### **SECTION 6: Accidental release measures**

#### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

#### 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

#### 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

#### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

frost

#### 7.3 specific end use(s)

see section 16 for a general overview.

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according to Regulation (EC) No. 1907/2006 (REACH)

# rabbit IgG

version number: GHS 1.0 date of compilation: 2019-12-02

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 control parameters

occupational exposure limit values (Workplace Exposure Limits)

coun- try	name of agent	CAS No	identi- fier	TWA [mg/m³]	STEL [ppm]		Ceiling-C [mg/m³]	source
GB	sucrose	57-50-1	WEL	10		20		EH40/ 2005

notation

Ceiling-C

ceiling value is a limit value above which exposure should not occur

STEL

TWΔ

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (un-

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-

weighted average (unless otherwise specified)

#### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

#### skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 information on basic physical and chemical properties

#### appearance

physical state	liquid
colour	colourless
odour	odourless

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according to Regulation (EC) No. 1907/2006 (REACH)

# rabbit IgG

version number: GHS 1.0 date of compilation: 2019-12-02

#### other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined
vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	not determined

#### partition coefficient

- n-octanol/water (log KOW)	this information is not available
auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none

# 9.2 other information there is no additional information

#### **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

 $concerning\ incompatibility: see\ below\ "Conditions\ to\ avoid"\ and\ "Incompatible\ materials".$ 

#### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

there is no additional information.

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according to Regulation (EC) No. 1907/2006 (REACH)

# rabbit IgG

version number: GHS 1.0 date of compilation: 2019-12-02

## 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

#### **SECTION 11: Toxicological information**

#### 11.1 information on toxicological effects

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

germ cell mutagenicity

shall not be classified as germ cell mutagenic.

carcinogenicity

shall not be classified as carcinogenic.

reproductive toxicity

shall not be classified as a reproductive toxicant.

specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

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according to Regulation (EC) No. 1907/2006 (REACH)

# rabbit IgG

version number: GHS 1.0 date of compilation: 2019-12-02

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 other adverse effects

data are not available.

#### **SECTION 13: Disposal considerations**

#### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information**

111	TIMI l	
14.1	UN number	not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

14.4 packing group not assigned to a packing group

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

#### 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR, RID and ADN.

#### **International Maritime Dangerous Goods Code (IMDG)**

not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

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according to Regulation (EC) No. 1907/2006 (REACH)

# rabbit IgG

version number: GHS 1.0 date of compilation: 2019-12-02

#### **SECTION 15: Regulatory information**

#### 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### abbreviations and acronyms

abbr.	descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

#### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### classification procedure

physical and chemical properties: the classification is based on tested mixture. health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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according to Regulation (EC) No. 1907/2006 (REACH)

# rabbit IgG

version number: GHS 1.0 date of compilation: 2019-12-02

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

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according to Regulation (EC) No. 1907/2006 (REACH)

# H3K4me3 polyclonal antibody

Version number: GHS 1.0 Date of compilation: 2019-11-14

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name H3K4me3 polyclonal antibody

Registration number (REACH) not relevant (mixture)

Product code(s) C15410003

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses For research use only, not for use in diagnostic or

therapeutic procedures.

#### 1.3 Details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

Telephone: +32 4 364 20 50 e-mail: info@diagenode.com

#### 1.4 Emergency telephone number

Emergency information service +32 4 364 20 50

This number is only available during the following

office hours: Mon-Fri 09:00 AM - 05:00 PM

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
3.4S	skin sensitisation	1	Skin Sens. 1	H317

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word warning

- Pictograms

GHS07



#### - Hazard statements

H317 May cause an allergic skin reaction.

#### - Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P321 Specific treatment (see on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container to industrial combustion plant.

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according to Regulation (EC) No. 1907/2006 (REACH)

# H3K4me3 polyclonal antibody

Version number: GHS 1.0 Date of compilation: 2019-11-14

- Hazardous ingredients for labelling

proclin 300

#### 2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not relevant (mixture)

#### 3.2 Mixtures

This product is composed of antibodies in aqueous buffer solution. It contains 0.05% sodium azide and 0,05% ProClin™ 300 as preservative.

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
proclin 300	CAS No 55965-84-9 Index No 613-167-00-5 REACH Reg. No 01-2120764691-48-xxxx	0.05	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

For full text of abbreviations: see SECTION 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

#### 4.3 Indication of any immediate medical attention and special treatment needed

none

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according to Regulation (EC) No. 1907/2006 (REACH)

# H3K4me3 polyclonal antibody

Version number: GHS 1.0 Date of compilation: 2019-11-14

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

#### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NOx)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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according to Regulation (EC) No. 1907/2006 (REACH)

# H3K4me3 polyclonal antibody

Version number: GHS 1.0 Date of compilation: 2019-11-14

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

Control of effects

Protect against external exposure, such as

#### 7.3 Specific end use(s)

See section 16 for a general overview.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

This information is not available.

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
proclin 300	55965-84-9	DNEL	0.02 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local ef- fects
proclin 300	55965-84-9	DNEL	0.04 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects

#### Relevant PNECs of components of the mixture **Threshold** Name of substance CAS No **Endpoint Organism Environmental** Exposure time level compartment 3.39 µg/1 proclin 300 55965-84-9 **PNEC** aquatic organisms freshwater short-term (single instancel 55965-84-9 **PNEC** $3.39 \, \mu g/1$ proclin 300 aquatic organisms marine water short-term (single instance) 55965-84-9 **PNEC** $0.23 \frac{\text{mg}}{1}$ short-term (single proclin 300 aquatic organisms sewage treatment plant (STP) instance) 0.027 mg/kg 55965-84-9 proclin 300 **PNEC** aquatic organisms freshwater sedishort-term (single instance) ment $0.027 \frac{\text{mg}}{\text{kg}}$ 55965-84-9 **PNEC** marine sediment short-term (single proclin 300 aquatic organisms instance) 0.01 <sup>mg</sup>/<sub>kg</sub> proclin 300 55965-84-9 **PNEC** terrestrial organisms soil short-term (single instancel

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according to Regulation (EC) No. 1907/2006 (REACH)

# H3K4me3 polyclonal antibody

Version number: GHS 1.0 Date of compilation: 2019-11-14

#### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

#### Skin protection

#### - Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/ impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state	liquid
Colour	colourless
Odour	odourless

#### Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	not determined
Vapour pressure	not determined
Density	1 g/ <sub>cm³</sub> at 20 °C

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according to Regulation (EC) No. 1907/2006 (REACH)

# H3K4me3 polyclonal antibody

Version number: GHS 1.0 Date of compilation: 2019-11-14

Vapour density	this information is not available
Solubility(ies)	not determined
,	not determined
Partition coefficient	
- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

# 9.2 Other information there is no additional information

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

There is no additional information.

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

United Kingdom: en Page: 6 / 10



according to Regulation (EC) No. 1907/2006 (REACH)

# H3K4me3 polyclonal antibody

Version number: GHS 1.0 Date of compilation: 2019-11-14

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Other adverse effects

Data are not available.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

United Kingdom: en Page: 7 / 10



according to Regulation (EC) No. 1907/2006 (REACH)

# H3K4me3 polyclonal antibody

Version number: GHS 1.0 Date of compilation: 2019-11-14

#### **SECTION 14: Transport information**

**14.1 UN number** not subject to transport regulations

14.2 UN proper shipping name not relevant
 14.3 Transport hazard class(es) not assigned
 14.4 Packing group not assigned

14.5 Environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 Special precautions for user

There is no additional information.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

#### Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR. Not subject to RID.

# European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN)

Identifier number 9006

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

Class 9
Number of cones/blue lights 0

#### **International Maritime Dangerous Goods Code (IMDG)**

Not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

#### **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
Acute Tox.	Acute toxicity	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agree- ment concerning the International Carriage of Dangerous Goods by Road)	

United Kingdom: en Page: 8 / 10



according to Regulation (EC) No. 1907/2006 (REACH)

## H3K4me3 polyclonal antibody

Version number: GHS 1.0 Date of compilation: 2019-11-14

Abbr.	Descriptions of used abbreviations	
Aquatic Acute	Hazardous to the aquatic environment - acute hazard	
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
DNEL	Derived No-Effect Level	
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
Eye Dam.	Seriously damaging to the eye	
Eye Irrit.	Irritant to the eye	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICA0	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008	
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	
NLP	No-Longer Polymer	
PBT	Persistent, Bioaccumulative and Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
Skin Corr.	Corrosive to skin	
Skin Irrit.	Irritant to skin	
Skin Sens.	Skin sensitisation	
vPvB	Very Persistent and very Bioaccumulative	

#### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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according to Regulation (EC) No. 1907/2006 (REACH)

## H3K4me3 polyclonal antibody

Version number: GHS 1.0 Date of compilation: 2019-11-14

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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according to Regulation (EC) No. 1907/2006 (REACH)

### ChIP-seq grade Myoglobin exon 2 primer pair

version number: GHS 1.0 date of compilation: 2019-12-02

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 product identifier

trade name ChIP-seq grade Myoglobin exon 2 primer pair

registration number (REACH) not relevant (mixture)

product code(s) C17011006

#### 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

#### 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

#### 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

#### **SECTION 2: Hazards identification**

#### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

#### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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according to Regulation (EC) No. 1907/2006 (REACH)

### ChIP-seq grade Myoglobin exon 2 primer pair

version number: GHS 1.0 date of compilation: 2019-12-02

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

description of the mixture

This product is composed of synthetic DNA oligonucleotides in an aqueous buffer solution. It does not contain any hazardous ingredients.

#### **SECTION 4: First aid measures**

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

#### 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

#### 4.3 indication of any immediate medical attention and special treatment needed

none

#### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

#### 5.2 special hazards arising from the substance or mixture

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

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according to Regulation (EC) No. 1907/2006 (REACH)

### ChIP-seq grade Myoglobin exon 2 primer pair

version number: GHS 1.0 date of compilation: 2019-12-02

#### **SECTION 6: Accidental release measures**

#### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

#### 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

#### 6.4 reference to other sections

personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

#### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

frost

#### 7.3 specific end use(s)

see section 16 for a general overview.

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according to Regulation (EC) No. 1907/2006 (REACH)

### ChIP-seq grade Myoglobin exon 2 primer pair

version number: GHS 1.0 date of compilation: 2019-12-02

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 control parameters

this information is not available.

#### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

#### skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties appearance

physical state	liquid
colour	colourless
odour	odourless

#### other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined

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according to Regulation (EC) No. 1907/2006 (REACH)

### ChIP-seq grade Myoglobin exon 2 primer pair

version number: GHS 1.0 date of compilation: 2019-12-02

vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	not determined

#### partition coefficient

- n-octanol/water (log KOW)	this information is not available
auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none

# 9.2 other information there is no additional information

#### **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

there is no additional information.

#### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

#### 11.1 information on toxicological effects

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

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according to Regulation (EC) No. 1907/2006 (REACH)

### ChIP-seq grade Myoglobin exon 2 primer pair

version number: GHS 1.0 date of compilation: 2019-12-02

#### acute toxicity

shall not be classified as acutely toxic.

#### skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

#### serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

#### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

#### carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 other adverse effects

data are not available.

United Kingdom: en page: 6 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

### ChIP-seq grade Myoglobin exon 2 primer pair

version number: GHS 1.0 date of compilation: 2019-12-02

#### **SECTION 13: Disposal considerations**

#### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information**

14.1	UN number	not subject to transport regulations
------	-----------	--------------------------------------

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

**14.4** packing group not assigned to a packing group

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

### 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG)** 

not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

### **SECTION 15: Regulatory information**

#### 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

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according to Regulation (EC) No. 1907/2006 (REACH)

## ChIP-seq grade Myoglobin exon 2 primer pair

version number: GHS 1.0 date of compilation: 2019-12-02

#### **SECTION 16: Other information**

#### abbreviations and acronyms

abbr.	descriptions of used abbreviations	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agree ment concerning the International Carriage of Dangerous Goods by Road)	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	
PBT	Persistent, Bioaccumulative and Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations con- cerning the International carriage of Dangerous goods by Rail)	
vPvB	Very Persistent and very Bioaccumulative	

#### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### classification procedure

physical and chemical properties: the classification is based on tested mixture. health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

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according to Regulation (EC) No. 1907/2006 (REACH)

### ChIP-seq grade GAPDH TSS primer pair

version number: GHS 3.0 revision: 2019-12-12 replaces version of: 2019-12-12 (GHS 2)

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 product identifier

trade name ChIP-seq grade GAPDH TSS primer pair

registration number (REACH) not relevant (mixture)

product code(s) C17011047

#### 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

#### 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

#### 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

#### **SECTION 2: Hazards identification**

#### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

#### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

United Kingdom: en page: 1 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

### ChIP-seq grade GAPDH TSS primer pair

version number: GHS 3.0 revision: 2019-12-12 replaces version of: 2019-12-12 (GHS 2)

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

#### description of the mixture

This product is composed of synthetic DNA oligonucleotides in an aqueous buffer solution. It does not contain any hazardous ingredients. This mixture does not contain any potentially hazardous products.

#### **SECTION 4: First aid measures**

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

#### 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

#### 4.3 indication of any immediate medical attention and special treatment needed

none

#### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

#### 5.2 special hazards arising from the substance or mixture

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

United Kingdom: en page: 2 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

### ChIP-seq grade GAPDH TSS primer pair

version number: GHS 3.0 revision: 2019-12-12 replaces version of: 2019-12-12 (GHS 2)

#### **SECTION 6: Accidental release measures**

#### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

#### 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

#### 6.4 reference to other sections

personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section

#### **SECTION 7: Handling and storage**

#### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation

use local and general ventilation. use only in well-ventilated areas.

#### advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

#### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

#### 7.3 specific end use(s)

see section 16 for a general overview.

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according to Regulation (EC) No. 1907/2006 (REACH)

### ChIP-seq grade GAPDH TSS primer pair

version number: GHS 3.0 revision: 2019-12-12 replaces version of: 2019-12-12 (GHS 2)

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 control parameters

this information is not available.

#### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

#### skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

## 9.1 information on basic physical and chemical properties

#### appearance

physical state	liquid
colour	colourless
odour	odourless

#### other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)

United Kingdom: en page: 4 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

## ChIP-seq grade GAPDH TSS primer pair

version number: GHS 3.0 revision: 2019-12-12 replaces version of: 2019-12-12 [GHS 2]

explosive limits	not determined
vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	not determined

#### partition coefficient

- n-octanol/water (log KOW)	this information is not available
auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none

# 9.2 other information there is no additional information

#### **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

there is no additional information.

#### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

United Kingdom: en page: 5 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

### ChIP-seq grade GAPDH TSS primer pair

version number: GHS 3.0 revision: 2019-12-12 replaces version of: 2019-12-12 (GHS 2)

#### **SECTION 11: Toxicological information**

#### 11.1 information on toxicological effects

test data are not available for the complete mixture.

#### classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### acute toxicity

shall not be classified as acutely toxic.

#### skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

#### serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

#### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

#### carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

United Kingdom: en page: 6 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

### ChIP-seq grade GAPDH TSS primer pair

version number: GHS 3.0 revision: 2019-12-12 replaces version of: 2019-12-12 (GHS 2)

#### 12.6 other adverse effects

data are not available.

#### **SECTION 13: Disposal considerations**

#### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information**

1/1	UN number	not subject to transport regulations
14.1	ON HUILIDEE	HOL SUDJECT TO HANSDOLL LEGISLATIONS

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

**14.4 packing group** not assigned to a packing group

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

#### 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG)** 

not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

#### **SECTION 15: Regulatory information**

#### 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

United Kingdom: en page: 7 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

### ChIP-seq grade GAPDH TSS primer pair

version number: GHS 3.0 revision: 2019-12-12 replaces version of: 2019-12-12 (GHS 2)

#### **SECTION 16: Other information**

#### indication of changes (revised safety data sheet)

section	former entry (text/value)	actual entry (text/value)	safety-rel- evant
1.1		product code(s): C17011047	yes

#### abbreviations and acronyms

abbr.	descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
vPvB	Very Persistent and very Bioaccumulative

#### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### classification procedure

physical and chemical properties: the classification is based on tested mixture.

health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

United Kingdom: en page: 8 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

### Tagmentase (Tn5 transposase) - loaded

version number: GHS 1.0 date of compilation: 2021-02-08

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 product identifier

trade name Tagmentase (Tn5 transposase) - loaded

registration number (REACH) not relevant (mixture)

product code(s) C01070012

#### 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

#### 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50

#### 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

#### **SECTION 2: Hazards identification**

#### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

#### 2.3 other hazards

of no significance

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures description of the mixture

This mixture does not contain any potentially hazardous products.

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according to Regulation (EC) No. 1907/2006 (REACH)

### Tagmentase (Tn5 transposase) - loaded

version number: GHS 1.0 date of compilation: 2021-02-08

#### **SECTION 4: First aid measures**

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

#### 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

#### 4.3 indication of any immediate medical attention and special treatment needed

none

#### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

#### 5.2 special hazards arising from the substance or mixture

hazardous combustion products

nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2)

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

#### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

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according to Regulation (EC) No. 1907/2006 (REACH)

### Tagmentase (Tn5 transposase) - loaded

version number: GHS 1.0 date of compilation: 2021-02-08

#### 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

#### 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

#### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

frost

#### 7.3 specific end use(s)

see section 16 for a general overview.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 control parameters

occupational exposure limit values (Workplace Exposure Limits)

coun- try	name of agent	CAS No	identi- fier	TWA [mg/m³]	STEL [ppm]		Ceiling-C [mg/m³]		source
GB	glycerol	56-81-5	WEL	10				mist	EH40/ 2005

notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

mist as mists

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (un-

less otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-

weighted average (unless otherwise specified)

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according to Regulation (EC) No. 1907/2006 (REACH)

### Tagmentase (Tn5 transposase) - loaded

version number: GHS 1.0 date of compilation: 2021-02-08

#### 8.2 exposure controls

appropriate engineering controls general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

#### skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

respiratory protection

in case of inadequate ventilation wear respiratory protection.

environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 information on basic physical and chemical properties

physical state	liquid
colour	colourless
odour	odourless
melting point/freezing point	not determined
boiling point or initial boiling point and boiling range	not determined
flammability	this material is combustible, but will not ignite readily
lower and upper explosion limit	not determined
flash point	not determined
auto-ignition temperature	not determined
decomposition temperature	not relevant
pH (value)	not determined
kinematic viscosity	not determined
solubility(ies)	not determined

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according to Regulation (EC) No. 1907/2006 (REACH)

### Tagmentase (Tn5 transposase) - loaded

version number: GHS 1.0 date of compilation: 2021-02-08

#### partition coefficient

this information is not available	
not determined	
not determined	

particle characteristics	no data available
--------------------------	-------------------

#### 9.2 other information

information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant	
other safety characteristics	there is no additional information	

#### **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

oxidisers

#### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

#### **SECTION 11: Toxicological information**

#### 11.1 information on hazard classes as defined in Regulation (EC) No 1272/2008

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

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according to Regulation (EC) No. 1907/2006 (REACH)

### Tagmentase (Tn5 transposase) - loaded

version number: GHS 1.0 date of compilation: 2021-02-08

#### acute toxicity

shall not be classified as acutely toxic.

#### skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

#### serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

#### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

#### carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### 11.2 information on other hazards

there is no additional information.

#### **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 endocrine disrupting properties

information on this property is not available.

#### 12.7 other adverse effects

data are not available.

United Kingdom: en page: 6 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

### Tagmentase (Tn5 transposase) - loaded

version number: GHS 1.0 date of compilation: 2021-02-08

#### **SECTION 13: Disposal considerations**

#### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information**

1/1 1	UN number or ID number	not subject to transport regulations
14.1	UN number of 1D number	not subject to transport redutations

14.2 UN proper shipping name not assigned

14.3 transport hazard class(es) none

**14.4** packing group not assigned

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

### 14.7 maritime transport in bulk according to IMO instruments

the cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

 $transport\ of\ dangerous\ goods\ by\ road,\ rail\ and\ inland\ waterway\ (ADR/RID/ADN)\ -\ additional\ information$ 

not assigned

International Maritime Dangerous Goods Code (IMDG) - additional information

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information not subject to ICAO-IATA.

#### **SECTION 15: Regulatory information**

#### 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

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according to Regulation (EC) No. 1907/2006 (REACH)

### Tagmentase (Tn5 transposase) - loaded

version number: GHS 1.0 date of compilation: 2021-02-08

#### **SECTION 16: Other information**

#### abbreviations and acronyms

abbr.	descriptions of used abbreviations		
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Wate ways)		
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agree- ment concerning the International Carriage of Dangerous Goods by Road)		
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)		
Ceiling-C	Ceiling value		
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures		
DGR	Dangerous Goods Regulations (see IATA/DGR)		
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)		
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations		
IATA	International Air Transport Association		
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)		
ICAO	International Civil Aviation Organization		
IMDG	International Maritime Dangerous Goods Code		
PBT	Persistent, Bioaccumulative and Toxic		
ppm	Parts per million		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals		
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)		
STEL	Short-term exposure limit		
TWA	Time-weighted average		
vPvB	Very Persistent and very Bioaccumulative		
WEL	Workplace exposure limit		

#### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### classification procedure

physical and chemical properties: the classification is based on tested mixture.

health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

United Kingdom: en page: 8 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

### 2x High-Fidelity Mastermix

version number: GHS 1.0 date of compilation: 2020-06-18

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 product identifier

trade name 2x High-Fidelity Mastermix

registration number (REACH) not relevant (mixture)

#### 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

#### 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK, Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

#### 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

#### **SECTION 2: Hazards identification**

#### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

#### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

United Kingdom: en page: 1/8



according to Regulation (EC) No. 1907/2006 (REACH)

### 2x High-Fidelity Mastermix

version number: GHS 1.0 date of compilation: 2020-06-18

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

description of the mixture

#### **SECTION 4: First aid measures**

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

#### 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

#### 4.3 indication of any immediate medical attention and special treatment needed

none

#### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

#### 5.2 special hazards arising from the substance or mixture

hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO2)

### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

United Kingdom: en page: 2 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

### 2x High-Fidelity Mastermix

version number: GHS 1.0 date of compilation: 2020-06-18

#### **SECTION 6: Accidental release measures**

#### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

#### 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

#### 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

#### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

frost

#### 7.3 specific end use(s)

see section 16 for a general overview.

United Kingdom: en page: 3 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

## 2x High-Fidelity Mastermix

version number: GHS 1.0 date of compilation: 2020-06-18

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 control parameters

this information is not available.

#### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

#### skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

respiratory protection

in case of inadequate ventilation wear respiratory protection.

environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties appearance

physical state	liquid
colour	colourless
odour	characteristic

#### other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined

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according to Regulation (EC) No. 1907/2006 (REACH)

### 2x High-Fidelity Mastermix

version number: GHS 1.0 date of compilation: 2020-06-18

vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	not determined

#### partition coefficient

- n-octanol/water (log KOW)	this information is not available
auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none

# 9.2 other information there is no additional information

#### **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

 $concerning\ incompatibility: see\ below\ "Conditions\ to\ avoid"\ and\ "Incompatible\ materials".$ 

#### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

oxidisers

#### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

#### 11.1 information on toxicological effects

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

United Kingdom: en page: 5 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

### 2x High-Fidelity Mastermix

version number: GHS 1.0 date of compilation: 2020-06-18

#### acute toxicity

shall not be classified as acutely toxic.

#### skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

#### serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

#### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

#### carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 other adverse effects

data are not available.

United Kingdom: en page: 6 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

## 2x High-Fidelity Mastermix

version number: GHS 1.0 date of compilation: 2020-06-18

#### **SECTION 13: Disposal considerations**

#### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information**

14.1	UN number	not subject to transport regulations
------	-----------	--------------------------------------

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

**14.4** packing group not assigned to a packing group

**14.5 environmental hazards** non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

### 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG)** 

not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

### **SECTION 15: Regulatory information**

#### 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

United Kingdom: en page: 7 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

### 2x High-Fidelity Mastermix

version number: GHS 1.0 date of compilation: 2020-06-18

#### **SECTION 16: Other information**

#### abbreviations and acronyms

abbr.	descriptions of used abbreviations		
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)		
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)		
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures		
DGR	Dangerous Goods Regulations (see IATA/DGR)		
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations		
IATA	International Air Transport Association		
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)		
ICA0	International Civil Aviation Organization		
IMDG	International Maritime Dangerous Goods Code		
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")		
PBT	Persistent, Bioaccumulative and Toxic		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals		
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations con- cerning the International carriage of Dangerous goods by Rail)		
vPvB	Very Persistent and very Bioaccumulative		

#### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### classification procedure

physical and chemical properties: the classification is based on tested mixture. health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

United Kingdom: en page: 8 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

#### 100x SYBR

version number: GHS 1.0 date of compilation: 2020-05-26

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 product identifier

trade name 100x SYBR

registration number (REACH) not relevant (mixture)

#### 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

#### 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

#### 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

#### **SECTION 2: Hazards identification**

#### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

#### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### **3.2 mixtures** description of the mixture

This mixture does not contain any potentially hazardous products.

United Kingdom: en page: 1/8



according to Regulation (EC) No. 1907/2006 (REACH)

#### 100x SYBR

version number: GHS 1.0 date of compilation: 2020-05-26

#### **SECTION 4: First aid measures**

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

#### 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

#### 4.3 indication of any immediate medical attention and special treatment needed

none

#### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

#### 5.2 special hazards arising from the substance or mixture

hazardous combustion products

nitrogen oxides (NOx)

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

#### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

United Kingdom: en page: 2 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# 100x SYBR

version number: GHS 1.0 date of compilation: 2020-05-26

# 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

# 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

# **SECTION 7: Handling and storage**

# 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as frost

### 7.3 specific end use(s)

see section 16 for a general overview.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 control parameters

this information is not available.

### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

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according to Regulation (EC) No. 1907/2006 (REACH)

# 100x SYBR

version number: GHS 1.0 date of compilation: 2020-05-26

### skin protection

### - hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

### respiratory protection

in case of inadequate ventilation wear respiratory protection.

### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

# **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties appearance

physical state	liquid
colour	orange
odour	characteristic

### other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined
vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	not determined

# partition coefficient

- n-octanol/water (log KOW)	this information is not available
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according to Regulation (EC) No. 1907/2006 (REACH)

# 100x SYBR

version number: GHS 1.0 date of compilation: 2020-05-26

auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none
other information	there is no additional information

# **SECTION 10: Stability and reactivity**

### 10.1 reactivity

9.2

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

### 10.5 incompatible materials

there is no additional information.

### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

# 11.1 information on toxicological effects

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

germ cell mutagenicity

shall not be classified as germ cell mutagenic.

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according to Regulation (EC) No. 1907/2006 (REACH)

# 100x SYBR

version number: GHS 1.0 date of compilation: 2020-05-26

### carcinogenicity

shall not be classified as carcinogenic.

### reproductive toxicity

shall not be classified as a reproductive toxicant.

### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

### **SECTION 12: Ecological information**

### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

### 12.2 persistence and degradability

data are not available.

### 12.3 bioaccumulative potential

data are not available.

### 12.4 mobility in soil

data are not available.

# 12.5 results of PBT and vPvB assessment

data are not available.

### 12.6 other adverse effects

data are not available.

# **SECTION 13: Disposal considerations**

### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

# waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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according to Regulation (EC) No. 1907/2006 (REACH)

# 100x SYBR

version number: GHS 1.0 date of compilation: 2020-05-26

# **SECTION 14: Transport information**

**14.1 UN number** not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

14.4 packing group not assigned to a packing group

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

### 14.6 special precautions for user

there is no additional information.

### 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

# Information for each of the UN Model Regulations

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR, RID and ADN.

### **International Maritime Dangerous Goods Code (IMDG)**

not subject to IMDG.

# International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

# **SECTION 15: Regulatory information**

# 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

# abbreviations and acronyms

abbr.	descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agree- ment concerning the International Carriage of Dangerous Goods by Road)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code

United Kingdom: en page: 7 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# 100x SYBR

version number: GHS 1.0 date of compilation: 2020-05-26

abbr.	descriptions of used abbreviations	
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	
PBT	Persistent, Bioaccumulative and Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
vPvB	Very Persistent and very Bioaccumulative	

# key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

# classification procedure

physical and chemical properties: the classification is based on tested mixture.

health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

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according to Regulation (EC) No. 1907/2006 (REACH)

# **Glycine**

version number: GHS 1.0 date of compilation: 2019-12-02

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1 product identifier

trade name Glycine

registration number (REACH) not relevant (mixture)

# 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

# 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

### 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

### **SECTION 2: Hazards identification**

### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

# 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

# 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### **SECTION 3: Composition/information on ingredients**

### 3.1 substances

not relevant (mixture)

### 3.2 mixtures description of the mixture

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according to Regulation (EC) No. 1907/2006 (REACH)

# **Glycine**

version number: GHS 1.0 date of compilation: 2019-12-02

#### **SECTION 4: First aid measures**

### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

# 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

# 4.3 indication of any immediate medical attention and special treatment needed

none

# **SECTION 5: Firefighting measures**

### 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

# 5.2 special hazards arising from the substance or mixture

hazardous combustion products

nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2)

### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

# **SECTION 6: Accidental release measures**

### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

United Kingdom: en page: 2 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# **Glycine**

version number: GHS 1.0 date of compilation: 2019-12-02

# 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

# 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

# **SECTION 7: Handling and storage**

# 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as frost

# 7.3 specific end use(s)

see section 16 for a general overview.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 control parameters

this information is not available.

# 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

United Kingdom: en page: 3 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# **Glycine**

version number: GHS 1.0 date of compilation: 2019-12-02

### skin protection

### - hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

### respiratory protection

in case of inadequate ventilation wear respiratory protection.

### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

### **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties appearance

physical state	liquid
colour	colourless
odour	odourless

### other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined
vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	not determined

### partition coefficient

- n-octanol/water (log KOW)	this information is not available
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United Kingdom: en page: 4 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# **Glycine**

version number: GHS 1.0 date of compilation: 2019-12-02

other information	there is no additional information
oxidising properties	none
explosive properties	none
viscosity	not determined
auto-ignition temperature	not determined

9.2

# **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

### 10.5 incompatible materials

oxidisers

### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

# information on toxicological effects

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

germ cell mutagenicity

shall not be classified as germ cell mutagenic.

United Kingdom: en page: 5 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# **Glycine**

version number: GHS 1.0 date of compilation: 2019-12-02

### carcinogenicity

shall not be classified as carcinogenic.

### reproductive toxicity

shall not be classified as a reproductive toxicant.

### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

### **SECTION 12: Ecological information**

### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

### 12.2 persistence and degradability

data are not available.

### 12.3 bioaccumulative potential

data are not available.

### 12.4 mobility in soil

data are not available.

### 12.5 results of PBT and vPvB assessment

data are not available.

### 12.6 other adverse effects

data are not available.

# **SECTION 13: Disposal considerations**

### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

# waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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according to Regulation (EC) No. 1907/2006 (REACH)

# **Glycine**

version number: GHS 1.0 date of compilation: 2019-12-02

# **SECTION 14: Transport information**

**14.1 UN number** not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

14.4 packing group not assigned to a packing group

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

### 14.6 special precautions for user

there is no additional information.

### 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

# Information for each of the UN Model Regulations

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG)** 

not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

### **SECTION 15: Regulatory information**

# 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

# abbreviations and acronyms

abbr.	descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICA0	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code

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according to Regulation (EC) No. 1907/2006 (REACH)

# **Glycine**

version number: GHS 1.0 date of compilation: 2019-12-02

abbr.	descriptions of used abbreviations	
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	
PBT	Persistent, Bioaccumulative and Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
vPvB	Very Persistent and very Bioaccumulative	

# key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### classification procedure

physical and chemical properties: the classification is based on tested mixture.

health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

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according to Regulation (EC) No. 1907/2006 (REACH)

# **Shearing Buffer S1**

version number: GHS 1.0 date of compilation: 2020-03-26

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1 product identifier

trade name

Shearing Buffer S1
registration number (REACH)
not relevant (mixture)

# 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses

for research use only, not for use in diagnostic or therapeutic procedures.

# 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

### 1.4 emergency telephone number

emergency information service

+32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

### **SECTION 2: Hazards identification**

### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

section	hazard class	category	hazard class and cat- egory	hazard state- ment
3.3	serious eye damage/eye irritation		Eye Irrit. 2	H319
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

for full text of abbreviations: see SECTION 16.

the most important adverse physicochemical, human health and environmental effects spillage and fire water can cause pollution of watercourses.

### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP)

- signal word warning

- pictograms

GHS07



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according to Regulation (EC) No. 1907/2006 (REACH)

# **Shearing Buffer S1**

version number: GHS 1.0 date of compilation: 2020-03-26

- hazard statements

H319 causes serious eye irritation.

H412 harmful to aquatic life with long lasting effects.

- precautionary statements

P273 avoid release to the environment.

P280 wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337+P313 if eye irritation persists: Get medical advice/attention.
P501 dispose of contents/container to industrial combustion plant.

#### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### **SECTION 3: Composition/information on ingredients**

### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

### description of the mixture

name of substance	identifier	wt%	classification acc. to GHS	pictograms
Triton X-100	CAS No 9002-93-1 EC No 618-344-0	≤2	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

for full text of abbreviations: see SECTION 16.

### **SECTION 4: First aid measures**

### 4.1 description of first aid measures

### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

# 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

# 4.3 indication of any immediate medical attention and special treatment needed

none

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according to Regulation (EC) No. 1907/2006 (REACH)

# **Shearing Buffer S1**

version number: GHS 1.0 date of compilation: 2020-03-26

# **SECTION 5: Firefighting measures**

### 5.1 extinguishing media

suitable extinguishing media water spray, BC-powder, carbon dioxide (CO2) unsuitable extinguishing media water jet

# 5.2 special hazards arising from the substance or mixture

hazardous combustion products nitrogen oxides (NOx)

# 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

# **SECTION 6: Accidental release measures**

# 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

### 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

### 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

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according to Regulation (EC) No. 1907/2006 (REACH)

# **Shearing Buffer S1**

version number: GHS 1.0 date of compilation: 2020-03-26

### **SECTION 7: Handling and storage**

### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

### advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

### 7.3 specific end use(s)

see section 16 for a general overview.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 control parameters

this information is not available.

### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

# skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

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according to Regulation (EC) No. 1907/2006 (REACH)

# **Shearing Buffer S1**

version number: GHS 1.0 date of compilation: 2020-03-26

# **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties appearance

physical state	liquid
colour	colourless
odour	odourless

# other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined
vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	not determined

# partition coefficient

- n-octanol/water (log KOW)	this information is not available	
auto-ignition temperature	not determined	
viscosity	not determined	
explosive properties	none	
oxidising properties	none	

# 9.2 other information there is no additional information

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according to Regulation (EC) No. 1907/2006 (REACH)

# **Shearing Buffer S1**

version number: GHS 1.0 date of compilation: 2020-03-26

# **SECTION 10: Stability and reactivity**

# 10.1 reactivity

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 chemical stability

see below "Conditions to avoid".

### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

# 10.5 incompatible materials

there is no additional information.

### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

### 11.1 information on toxicological effects

test data are not available for the complete mixture.

### classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### classification according to GHS (1272/2008/EC, CLP)

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

causes serious eye irritation.

respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

germ cell mutagenicity

shall not be classified as germ cell mutagenic.

carcinogenicity

shall not be classified as carcinogenic.

reproductive toxicity

shall not be classified as a reproductive toxicant.

specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

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according to Regulation (EC) No. 1907/2006 (REACH)

# **Shearing Buffer S1**

version number: GHS 1.0 date of compilation: 2020-03-26

### aspiration hazard

shall not be classified as presenting an aspiration hazard.

# **SECTION 12: Ecological information**

### 12.1 toxicity

harmful to aquatic life with long lasting effects.

# 12.2 persistence and degradability

data are not available.

### 12.3 bioaccumulative potential

data are not available.

### 12.4 mobility in soil

data are not available.

### 12.5 results of PBT and vPvB assessment

data are not available.

### 12.6 other adverse effects

data are not available.

# **SECTION 13: Disposal considerations**

# 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

### waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

### **SECTION 14: Transport information**

14.1	UN number	not subject to transport regulations	
14.2	14.2 UN proper shipping name not relevant		
14.3	transport hazard class(es)	not assigned	
14.4	packing group	not assigned	
14.5	environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations	

### 14.6 special precautions for user

there is no additional information.

# 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

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according to Regulation (EC) No. 1907/2006 (REACH)

# **Shearing Buffer S1**

version number: GHS 1.0 date of compilation: 2020-03-26

# Information for each of the UN Model Regulations

# transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR. not subject to RID.

# European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN)

identifier number 9006

proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

class 9 number of cones/blue lights 0

### **International Maritime Dangerous Goods Code (IMDG)**

not subject to IMDG.

### International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

### **SECTION 15: Regulatory information**

# 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

### abbreviations and acronyms

abbr.	descriptions of used abbreviations	
Acute Tox.	Acute toxicity	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agree- ment concerning the International Carriage of Dangerous Goods by Road)	
Aquatic Acute	Hazardous to the aquatic environment - acute hazard	
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
Eye Dam.	Seriously damaging to the eye	
Eye Irrit.	Irritant to the eye	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	

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according to Regulation (EC) No. 1907/2006 (REACH)

# **Shearing Buffer S1**

version number: GHS 1.0 date of compilation: 2020-03-26

abbr.	descriptions of used abbreviations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008	
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	
NLP	No-Longer Polymer	
PBT	Persistent, Bioaccumulative and Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
Skin Corr.	Corrosive to skin	
Skin Irrit.	Irritant to skin	
vPvB	Very Persistent and very Bioaccumulative	

# key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### classification procedure

physical and chemical properties: the classification is based on tested mixture. health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

# list of relevant phrases (code and full text as stated in chapter 2 and 3)

code	text
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

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according to Regulation (EC) No. 1907/2006 (REACH)

# DiaMag protein A-coated magnetic beads

version number: GHS 1.0 date of compilation: 2019-12-02

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1 product identifier

trade name DiaMag protein A-coated magnetic beads

registration number (REACH) not relevant (mixture)

product code(s) C03010020

### 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

### 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

# 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

### **SECTION 2: Hazards identification**

### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

# 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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according to Regulation (EC) No. 1907/2006 (REACH)

# DiaMag protein A-coated magnetic beads

version number: GHS 1.0 date of compilation: 2019-12-02

### **SECTION 3: Composition/information on ingredients**

### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

description of the mixture

### **SECTION 4: First aid measures**

# 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

### following skin contact

wash with plenty of soap and water.

### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

# 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

# 4.3 indication of any immediate medical attention and special treatment needed

none

### **SECTION 5: Firefighting measures**

### 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

### 5.2 special hazards arising from the substance or mixture

hazardous combustion products

nitrogen oxides (NOx)

# 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

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according to Regulation (EC) No. 1907/2006 (REACH)

# DiaMag protein A-coated magnetic beads

version number: GHS 1.0 date of compilation: 2019-12-02

### **SECTION 6: Accidental release measures**

### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

# 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

### 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

### 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

### **SECTION 7: Handling and storage**

# 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

# 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

frost

### 7.3 specific end use(s)

see section 16 for a general overview.

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according to Regulation (EC) No. 1907/2006 (REACH)

# DiaMag protein A-coated magnetic beads

version number: GHS 1.0 date of compilation: 2019-12-02

### **SECTION 8: Exposure controls/personal protection**

# 8.1 control parameters

this information is not available.

# 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

### skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

respiratory protection

in case of inadequate ventilation wear respiratory protection.

environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

# **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties appearance

physical state	liquid (suspension)
colour	brown
odour	odourless

# other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined

United Kingdom: en page: 4 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# DiaMag protein A-coated magnetic beads

version number: GHS 1.0 date of compilation: 2019-12-02

vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	not determined

### partition coefficient

- n-octanol/water (log KOW)	this information is not available
auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none

# 9.2 other information there is no additional information

# **SECTION 10: Stability and reactivity**

# 10.1 reactivity

 $concerning\ incompatibility: see\ below\ "Conditions\ to\ avoid"\ and\ "Incompatible\ materials".$ 

### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 possibility of hazardous reactions

no known hazardous reactions.

### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

### 10.5 incompatible materials

there is no additional information.

### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

# 11.1 information on toxicological effects

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

# classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

United Kingdom: en page: 5 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# DiaMag protein A-coated magnetic beads

version number: GHS 1.0 date of compilation: 2019-12-02

### acute toxicity

shall not be classified as acutely toxic.

### skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

### serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

### carcinogenicity

shall not be classified as carcinogenic.

### reproductive toxicity

shall not be classified as a reproductive toxicant.

### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

# aspiration hazard

shall not be classified as presenting an aspiration hazard.

# **SECTION 12: Ecological information**

### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

### 12.2 persistence and degradability

data are not available.

# 12.3 bioaccumulative potential

data are not available.

### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

### 12.6 other adverse effects

data are not available.

United Kingdom: en page: 6 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# DiaMag protein A-coated magnetic beads

version number: GHS 1.0 date of compilation: 2019-12-02

### **SECTION 13: Disposal considerations**

#### 13.1 waste treatment methods

waste treatment-relevant information

recycling/reclamation of other inorganic materials.

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

### **SECTION 14: Transport information**

14.1	<b>UN number</b>	not subject to transport regulation
14.1	ON HUHHDEL	ווטו שעופנו נט נו מוושטו נו פענומנונ

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

**14.4** packing group not assigned to a packing group

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

# 14.6 special precautions for user

there is no additional information.

# 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG)** 

not subject to IMDG.

# International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

# **SECTION 15: Regulatory information**

# 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

# 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

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according to Regulation (EC) No. 1907/2006 (REACH)

# DiaMag protein A-coated magnetic beads

version number: GHS 1.0 date of compilation: 2019-12-02

### **SECTION 16: Other information**

### abbreviations and acronyms

abbr.	descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICA0	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
vPvB	Very Persistent and very Bioaccumulative

### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### classification procedure

physical and chemical properties: the classification is based on tested mixture. health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

# disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

United Kingdom: en page: 8 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# wash buffer iW1

version number: GHS 2.0 revision: 2019-12-02 replaces version of: 2019-11-22 (GHS 1)

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1 product identifier

trade name wash buffer iW1

registration number (REACH) not relevant (mixture)

# 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

# 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

# 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

### **SECTION 2: Hazards identification**

### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

section	hazard class	category	hazard class and cat- egory	hazard state- ment
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

for full text of abbreviations: see SECTION 16.

the most important adverse physicochemical, human health and environmental effects spillage and fire water can cause pollution of watercourses.

### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP)

- signal word warning

- pictograms

GHS07

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according to Regulation (EC) No. 1907/2006 (REACH)

# wash buffer iW1

version number: GHS 2.0 revision: 2019-12-02 replaces version of: 2019-11-22 (GHS 1)

#### - hazard statements

H319 causes serious eye irritation.

H412 harmful to aquatic life with long lasting effects.

### - precautionary statements

P273 avoid release to the environment.

P280 wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337+P313 if eye irritation persists: Get medical advice/attention.
P501 dispose of contents/container to industrial combustion plant.

### 2.3 other hazards

#### results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

# **SECTION 3: Composition/information on ingredients**

### 3.1 substances

not relevant (mixture)

### 3.2 mixtures

### description of the mixture

name of substance	identifier	wt%	classification acc. to GHS	pictograms
Triton X-100	CAS No 9002-93-1 EC No 618-344-0	≤2	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

for full text of abbreviations: see SECTION 16.

#### **SECTION 4: First aid measures**

### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

### following skin contact

wash with plenty of soap and water.

# following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

### 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

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according to Regulation (EC) No. 1907/2006 (REACH)

# wash buffer iW1

version number: GHS 2.0 revision: 2019-12-02 replaces version of: 2019-11-22 (GHS 1)

### 4.3 indication of any immediate medical attention and special treatment needed

none

# **SECTION 5: Firefighting measures**

# 5.1 extinguishing media

suitable extinguishing media water spray, BC-powder, carbon dioxide (CO2) unsuitable extinguishing media water jet

# 5.2 special hazards arising from the substance or mixture

hazardous combustion products nitrogen oxides (NOx)

### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

### **SECTION 6: Accidental release measures**

# 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

# 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

### 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

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according to Regulation (EC) No. 1907/2006 (REACH)

# wash buffer iW1

version number: GHS 2.0 revision: 2019-12-02 replaces version of: 2019-11-22 (GHS 1)

### **SECTION 7: Handling and storage**

# 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

### advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as frost

### 7.3 specific end use(s)

see section 16 for a general overview.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 control parameters

this information is not available.

### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

# skin protection

### - hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

### respiratory protection

in case of inadequate ventilation wear respiratory protection.

### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

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according to Regulation (EC) No. 1907/2006 (REACH)

# wash buffer iW1

version number: GHS 2.0 revision: 2019-12-02 replaces version of: 2019-11-22 (GHS 1)

# **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties appearance

physical state	liquid
colour	colourless
odour	odourless

# other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined
vapour pressure	not determined
density	1 g/ <sub>cm³</sub> at 20 °C
vapour density	this information is not available
solubility(ies)	not determined

# partition coefficient

- n-octanol/water (log KOW)	this information is not available
auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none

# 9.2 other information there is no additional information

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according to Regulation (EC) No. 1907/2006 (REACH)

# wash buffer iW1

version number: GHS 2.0 revision: 2019-12-02 replaces version of: 2019-11-22 (GHS 1)

# **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 chemical stability

see below "Conditions to avoid".

## 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

there is no additional information.

## 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

#### 11.1 information on toxicological effects

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

# classification according to GHS (1272/2008/EC, CLP)

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

causes serious eye irritation.

respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

germ cell mutagenicity

shall not be classified as germ cell mutagenic.

carcinogenicity

shall not be classified as carcinogenic.

reproductive toxicity

shall not be classified as a reproductive toxicant.

specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

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according to Regulation (EC) No. 1907/2006 (REACH)

# wash buffer iW1

version number: GHS 2.0 revision: 2019-12-02 replaces version of: 2019-11-22 (GHS 1)

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

# **SECTION 12: Ecological information**

## 12.1 toxicity

harmful to aquatic life with long lasting effects.

## 12.2 persistence and degradability

data are not available.

## 12.3 bioaccumulative potential

data are not available.

## 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 other adverse effects

data are not available.

# **SECTION 13: Disposal considerations**

### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information**

14.1	UN number	not subject to transport regulations

14.2 UN proper shipping name not relevant
 14.3 transport hazard class(es) not assigned
 14.4 packing group not assigned

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

# 14.6 special precautions for user

there is no additional information.

## 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

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according to Regulation (EC) No. 1907/2006 (REACH)

# wash buffer iW1

version number: GHS 2.0 revision: 2019-12-02 replaces version of: 2019-11-22 (GHS 1)

# Information for each of the UN Model Regulations

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR. not subject to RID.

# European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN)

identifier number 9006

proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

class 9
number of cones/blue lights 0

# **International Maritime Dangerous Goods Code (IMDG)**

not subject to IMDG.

# International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

## **SECTION 15: Regulatory information**

# 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

# indication of changes (revised safety data sheet)

section	former entry (text/value)	actual entry (text/value)	safety-rel- evant
1.1	alternative name(s): tagW2		yes
3.2	mixtures	mixtures: description of the mixture	yes

## abbreviations and acronyms

abbr.	descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)

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according to Regulation (EC) No. 1907/2006 (REACH)

# wash buffer iW1

version number: GHS 2.0 revision: 2019-12-02 replaces version of: 2019-11-22 [GHS 1]

abbr.	descriptions of used abbreviations
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
vPvB	Very Persistent and very Bioaccumulative

#### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### classification procedure

physical and chemical properties: the classification is based on tested mixture.

health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

# list of relevant phrases (code and full text as stated in chapter 2 and 3)

code	text
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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according to Regulation (EC) No. 1907/2006 (REACH)

# wash buffer iW1

version number: GHS 2.0 revision: 2019-12-02 replaces version of: 2019-11-22 (GHS 1)

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

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according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW2

version number: GHS 1.0 date of compilation: 2019-11-22

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1 product identifier

trade name Wash buffer iW2
registration number (REACH) not relevant (mixture)

## 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses

for research use only, not for use in diagnostic or

therapeutic procedures.

# 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

## 1.4 emergency telephone number

emergency information service

+32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre			
country	name	telephone	
United Kingdom	National Poisons Information Service	111	

#### **SECTION 2: Hazards identification**

## 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

section	hazard class	category	hazard class and cat- egory	hazard state- ment
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

for full text of abbreviations: see SECTION 16.

the most important adverse physicochemical, human health and environmental effects spillage and fire water can cause pollution of watercourses.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP)

- signal word warning

- pictograms

GHS07



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according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW2

version number: GHS 1.0 date of compilation: 2019-11-22

- hazard statements

H319 causes serious eye irritation.

H412 harmful to aquatic life with long lasting effects.

- precautionary statements

P273 avoid release to the environment.

P280 wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337+P313 if eye irritation persists: Get medical advice/attention.
P501 dispose of contents/container to industrial combustion plant.

#### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

name of su	ıbstance	identifier	wt%	classification acc. to GHS	pictograms
Triton )	<b>(-100</b>	CAS No 9002-93-1 EC No 618-344-0	≤1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

for full text of abbreviations: see SECTION 16.

## **SECTION 4: First aid measures**

#### 4.1 description of first aid measures

## general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

# 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

# 4.3 indication of any immediate medical attention and special treatment needed

none

United Kingdom: en page: 2 / 9



according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW2

version number: GHS 1.0 date of compilation: 2019-11-22

# **SECTION 5: Firefighting measures**

## 5.1 extinguishing media

suitable extinguishing media water spray, BC-powder, carbon dioxide (CO2) unsuitable extinguishing media water jet

# 5.2 special hazards arising from the substance or mixture

hazardous combustion products nitrogen oxides (NOx)

# 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

# **SECTION 6: Accidental release measures**

# 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

# 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

#### 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

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according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW2

version number: GHS 1.0 date of compilation: 2019-11-22

## **SECTION 7: Handling and storage**

#### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

#### advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

## 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

## 7.3 specific end use(s)

see section 16 for a general overview.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 control parameters

this information is not available.

### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

## skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

United Kingdom: en page: 4 / 9



according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW2

version number: GHS 1.0 date of compilation: 2019-11-22

# **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties appearance

physical state	liquid
colour	colourless
odour	odourless

# other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined
vapour pressure	not determined
density	1 <sup>g</sup> / <sub>cm³</sub> at 20 °C
vapour density	this information is not available
solubility(ies)	not determined

# partition coefficient

- n-octanol/water (log KOW)	this information is not available
auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none

# 9.2 other information there is no additional information

United Kingdom: en page: 5 / 9



according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW2

version number: GHS 1.0 date of compilation: 2019-11-22

# **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 chemical stability

see below "Conditions to avoid".

## 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

# 10.5 incompatible materials

there is no additional information.

## 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

## 11.1 information on toxicological effects

test data are not available for the complete mixture.

#### classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## classification according to GHS (1272/2008/EC, CLP)

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

causes serious eye irritation.

respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

germ cell mutagenicity

shall not be classified as germ cell mutagenic.

carcinogenicity

shall not be classified as carcinogenic.

reproductive toxicity

shall not be classified as a reproductive toxicant.

specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

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according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW2

version number: GHS 1.0 date of compilation: 2019-11-22

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

# **SECTION 12: Ecological information**

#### 12.1 toxicity

harmful to aquatic life with long lasting effects.

# 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

## 12.4 mobility in soil

data are not available.

## 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 other adverse effects

data are not available.

# **SECTION 13: Disposal considerations**

# 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

#### waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information**

14.1	UN number	not subject to transport regulations
14.2	UN proper shipping name	not relevant
14.3	transport hazard class(es)	not assigned
14.4	packing group	not assigned
14.5	environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations

## 14.6 special precautions for user

there is no additional information.

# 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

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according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW2

version number: GHS 1.0 date of compilation: 2019-11-22

# Information for each of the UN Model Regulations

# transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR. not subject to RID.

# European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN)

identifier number 9006

proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

class 9 number of cones/blue lights 0

## **International Maritime Dangerous Goods Code (IMDG)**

not subject to IMDG.

## International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

## **SECTION 15: Regulatory information**

# 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### abbreviations and acronyms

abbr.	descriptions of used abbreviations		
Acute Tox.	Acute toxicity		
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)		
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agree- ment concerning the International Carriage of Dangerous Goods by Road)		
Aquatic Acute	Hazardous to the aquatic environment - acute hazard		
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard		
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)		
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures		
DGR	Dangerous Goods Regulations (see IATA/DGR)		
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)		
EINECS	European Inventory of Existing Commercial Chemical Substances		
ELINCS	European List of Notified Chemical Substances		
Eye Dam.	Seriously damaging to the eye		
Eye Irrit.	Irritant to the eye		
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations		

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according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW2

version number: GHS 1.0 date of compilation: 2019-11-22

abbr.	descriptions of used abbreviations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008	
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	
NLP	No-Longer Polymer	
PBT	Persistent, Bioaccumulative and Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
Skin Corr.	Corrosive to skin	
Skin Irrit.	Irritant to skin	
vPvB	Very Persistent and very Bioaccumulative	

# key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### classification procedure

physical and chemical properties: the classification is based on tested mixture. health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

# list of relevant phrases (code and full text as stated in chapter 2 and 3)

code	text
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

United Kingdom: en page: 9 / 9



according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW3

version number: GHS 1.0 date of compilation: 2019-11-22

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1 product identifier

trade name Wash buffer iW3
registration number (REACH) not relevant (mixture)

# 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

# 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

## 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

#### **SECTION 2: Hazards identification**

## 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP)

signal word not requiredpictograms not requiredsupplemental hazard information

EUH210 safety data sheet available on request.

#### 2.3 other hazards

there is no additional information.

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW3

version number: GHS 1.0 date of compilation: 2019-11-22

# **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

identifier	wt%	classification acc. to GHS	pictograms
CAS No 7447-41-8 EC No 231-212-3 REACH Reg. No	≤2	Acute Tox. 4 / H302	<u>(1)</u>
	CAS No 7447-41-8 EC No 231-212-3	CAS No ≤2 7447-41-8 EC No	CAS No 7447-41-8  EC No 231-212-3  Acute Tox. 4 / H302

for full text of abbreviations: see SECTION 16.

## **SECTION 4: First aid measures**

# 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

#### 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

# 4.3 indication of any immediate medical attention and special treatment needed

none

## **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

#### 5.2 special hazards arising from the substance or mixture

hazardous combustion products

nitrogen oxides (NOx)

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according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW3

version number: GHS 1.0 date of compilation: 2019-11-22

# 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

# 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

# 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

# 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

#### 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

# **SECTION 7: Handling and storage**

# 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

## 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as frost

#### 7.3 specific end use(s)

see section 16 for a general overview.

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according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW3

version number: GHS 1.0 date of compilation: 2019-11-22

# **SECTION 8: Exposure controls/personal protection**

# 8.1 control parameters

this information is not available.

relevant DNELs of components of the mixture name of substance **CAS No** endpoint threshold protection goal, used in exposure time level route of exposure Lithium chloride 7447-41-8 DNEL 10 mg/m<sup>3</sup> human, inhalatory worker (industry) chronic - systemic effects Lithium chloride 7447-41-8 DNEL 30 mg/m<sup>3</sup> human, inhalatory worker (industry) - systemic effects Lithium chloride 7447-41-8 DNEL 73.2 mg/kg human, dermal worker (industry) chronic - systemic effects bw/day

## relevant PNECs of components of the mixture

				i		
name of substance	CAS No	endpoint	threshold level	organism	environmental compartment	exposure time
Lithium chloride	7447-41-8	PNEC	10.4 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
Lithium chloride	7447-41-8	PNEC	1.04 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)
Lithium chloride	7447-41-8	PNEC	140.2 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Lithium chloride	7447-41-8	PNEC	49.9 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sedi- ment	short-term (single instance)
Lithium chloride	7447-41-8	PNEC	4.99 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)
Lithium chloride	7447-41-8	PNEC	4.13 <sup>mg</sup> / <sub>kg</sub>	terrestrial organisms	soil	short-term (single instance)

## 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

#### skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

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according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW3

version number: GHS 1.0 date of compilation: 2019-11-22

environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

# **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties appearance

physical state	liquid
colour	colourless
odour	odourless

# other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined
vapour pressure	not determined
density	1 <sup>g</sup> / <sub>cm³</sub> at 20 °C
vapour density	this information is not available
solubility(ies)	not determined

# partition coefficient

!	
- n-octanol/water (log KOW)	this information is not available
auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none

# 9.2 other information there is no additional information

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according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW3

version number: GHS 1.0 date of compilation: 2019-11-22

## **SECTION 10: Stability and reactivity**

## 10.1 reactivity

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

## 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

## 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

# 10.5 incompatible materials

there is no additional information.

## 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

# 11.1 information on toxicological effects

test data are not available for the complete mixture.

#### classification procedure

 $the \ method \ for \ classification \ of \ the \ mixture \ is \ based \ on \ ingredients \ of \ the \ mixture \ (additivity \ formula).$ 

## classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

## acute toxicity

shall not be classified as acutely toxic.

#### skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

# serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

#### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

## carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

# specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

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according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW3

version number: GHS 1.0 date of compilation: 2019-11-22

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

# **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

# 12.2 persistence and degradability

data are not available.

## 12.3 bioaccumulative potential

data are not available.

# 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 other adverse effects

data are not available.

# **SECTION 13: Disposal considerations**

# 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

#### waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

TIM was bore

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## **SECTION 14: Transport information**

14.1	UN number	not subject to transport regulations
14.2	UN proper shipping name	not relevant
14.3	transport hazard class(es)	none
14.4	packing group	not assigned to a packing group

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

## 14.6 special precautions for user

there is no additional information.

#### 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

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according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW3

version number: GHS 1.0 date of compilation: 2019-11-22

# Information for each of the UN Model Regulations

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG)** 

not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

# **SECTION 15: Regulatory information**

# 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

# abbreviations and acronyms

abbr.	descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration

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according to Regulation (EC) No. 1907/2006 (REACH)

# Wash buffer iW3

version number: GHS 1.0 date of compilation: 2019-11-22

abbr.	descriptions of used abbreviations
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
vPvB	Very Persistent and very Bioaccumulative

# key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

## classification procedure

physical and chemical properties: the classification is based on tested mixture. health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

# list of relevant phrases (code and full text as stated in chapter 2 and 3)

code	text
H302	Harmful if swallowed.

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

United Kingdom: en page: 9 / 9



according to Regulation (EC) No. 1907/2006 (REACH)

# ChIP-seq grade water

version number: GHS 2.0 revision: 2019-12-23 replaces version of: 2019-11-22 (GHS 1)

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1 product identifier

identification of the substance ChIP-seq grade water

registration number (REACH) this information is not available

CAS number 7732-18-5

# 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

# 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

## 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country name telephone		telephone
United Kingdom	National Poisons Information Service	111

#### **SECTION 2: Hazards identification**

#### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

#### 2.3 other hazards

results of PBT and vPvB assessment

according to the results of its assessment, this substance is not a PBT or a vPvB.

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according to Regulation (EC) No. 1907/2006 (REACH)

# ChIP-seq grade water

version number: GHS 2.0 revision: 2019-12-23 replaces version of: 2019-11-22 (GHS 1)

## **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

name of substance ChIP-seq grade water

identifiers

CAS No 7732-18-5 molecular formula H20 molar mass  $18.02 \, {}^{\rm g}\!/_{\rm mol}$ 

# **SECTION 4: First aid measures**

# 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

# 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

#### 4.3 indication of any immediate medical attention and special treatment needed

none

# **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, alcohol resistant foam, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

#### 5.2 special hazards arising from the substance or mixture

# 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

United Kingdom: en page: 2 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# ChIP-seq grade water

version number: GHS 2.0 revision: 2019-12-23 replaces version of: 2019-11-22 [GHS 1]

#### **SECTION 6: Accidental release measures**

# 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

## 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

# 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

## 6.4 reference to other sections

personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

# **SECTION 7: Handling and storage**

#### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

## 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

frost

# 7.3 specific end use(s)

see section 16 for a general overview.

United Kingdom: en page: 3 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# ChIP-seq grade water

version number: GHS 2.0 revision: 2019-12-23 replaces version of: 2019-11-22 (GHS 1)

# **SECTION 8: Exposure controls/personal protection**

# 8.1 control parameters

this information is not available.

## 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

#### skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

# **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties appearance

physical state	liquid
colour	colourless
odour	odourless

#### other safety parameters

pH (value)	not determined
melting point/freezing point	0 °C
initial boiling point and boiling range	100 °C
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)

United Kingdom: en page: 4 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# ChIP-seq grade water

version number: GHS 2.0 revision: 2019-12-23 replaces version of: 2019-11-22 (GHS 1)

explosive limits	not determined	
vapour pressure	not determined	
density	not determined	
vapour density	this information is not available	
relative density	information on this property is not available	
solubility(ies)		
- water solubility	miscible in any proportion	
partition coefficient		
- n-octanol/water (log KOW)	this information is not available	
auto-ignition temperature	not determined	
viscosity	not determined	
explosive properties	none	
oxidising properties	none	
other information	there is no additional information	

# **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

9.2

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

# 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

# 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

there is no additional information.

# 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

United Kingdom: en page: 5 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# ChIP-seq grade water

version number: GHS 2.0 revision: 2019-12-23 replaces version of: 2019-11-22 (GHS 1)

# **SECTION 11: Toxicological information**

# 11.1 information on toxicological effects

# classification according to GHS (1272/2008/EC, CLP)

this substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### acute toxicity

shall not be classified as acutely toxic.

#### skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

## serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

#### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

#### carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

# specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

## aspiration hazard

shall not be classified as presenting an aspiration hazard.

# **SECTION 12: Ecological information**

# 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

# 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

## 12.6 other adverse effects

data are not available.

United Kingdom: en page: 6 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# ChIP-seq grade water

version number: GHS 2.0 revision: 2019-12-23 replaces version of: 2019-11-22 (GHS 1)

# **SECTION 13: Disposal considerations**

#### 13.1 waste treatment methods

waste treatment-relevant information

recycling/reclamation of other inorganic materials.

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

# **SECTION 14: Transport information**

14 1	UN number	not subject to transport regulations
T-T-T	OIN HUHHIDCE	not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

14.4 packing group not assigned to a packing group

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

# 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

# Information for each of the UN Model Regulations

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG)** 

not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

#### **SECTION 15: Regulatory information**

# 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

## 15.2 Chemical Safety Assessment

no Chemical Safety Assessment has been carried out for this substance.

United Kingdom: en page: 7 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# ChIP-seq grade water

version number: GHS 2.0 revision: 2019-12-23 replaces version of: 2019-11-22 (GHS 1)

# **SECTION 16: Other information**

# indication of changes (revised safety data sheet)

section	former entry (text/value)	actual entry (text/value)	safety-rel- evant
5.1	suitable extinguishing media: not applicable	suitable extinguishing media: water spray, alcohol resistant foam, BC-powder, car- bon dioxide (CO2)	yes
5.1	unsuitable extinguishing media: not applicable	unsuitable extinguishing media: water jet	yes

# abbreviations and acronyms

abbr.	descriptions of used abbreviations	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	
PBT	Persistent, Bioaccumulative and Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations con- cerning the International carriage of Dangerous goods by Rail)	
vPvB	Very Persistent and very Bioaccumulative	

#### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

# disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

United Kingdom: en page: 8 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# Lysis Buffer iL2

version number: GHS 2.0 revision: 2019-12-23 replaces version of: 2019-12-02 (GHS 1)

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1 product identifier

trade name Lysis Buffer iL2

registration number (REACH) not relevant (mixture)

# 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

# 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

# 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

## **SECTION 2: Hazards identification**

# 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

#### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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according to Regulation (EC) No. 1907/2006 (REACH)

# Lysis Buffer iL2

version number: GHS 2.0 revision: 2019-12-23 replaces version of: 2019-12-02 (GHS 1)

## **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

description of the mixture

This mixture does not contain any potentially hazardous products.

#### **SECTION 4: First aid measures**

# 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

## following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

## 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

#### 4.3 indication of any immediate medical attention and special treatment needed

none

#### **SECTION 5: Firefighting measures**

## 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

# 5.2 special hazards arising from the substance or mixture

hazardous combustion products

nitrogen oxides (NOx)

# 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

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according to Regulation (EC) No. 1907/2006 (REACH)

# Lysis Buffer iL2

version number: GHS 2.0 revision: 2019-12-23 replaces version of: 2019-12-02 [GHS 1]

## **SECTION 6: Accidental release measures**

# 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

## 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

# 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

## 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

# **SECTION 7: Handling and storage**

#### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

## 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

frost

# 7.3 specific end use(s)

see section 16 for a general overview.

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according to Regulation (EC) No. 1907/2006 (REACH)

# Lysis Buffer iL2

version number: GHS 2.0 revision: 2019-12-23 replaces version of: 2019-12-02 (GHS 1)

# **SECTION 8: Exposure controls/personal protection**

# 8.1 control parameters

this information is not available.

## 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

#### skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

appearance

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

# **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties

physical state	liquid
colour	colourless
odour	odourless

#### other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)

United Kingdom: en page: 4 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

# Lysis Buffer iL2

version number: GHS 2.0 revision: 2019-12-23 replaces version of: 2019-12-02 (GHS 1)

explosive limits	not determined
vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	not determined

## partition coefficient

- n-octanol/water (log KOW)	this information is not available
auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none

# 9.2 other information there is no additional information

# **SECTION 10: Stability and reactivity**

# 10.1 reactivity

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

# 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

# 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

there is no additional information.

# 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

United Kingdom: en page: 5 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

### Lysis Buffer iL2

version number: GHS 2.0 revision: 2019-12-23 replaces version of: 2019-12-02 (GHS 1)

#### **SECTION 11: Toxicological information**

#### 11.1 information on toxicological effects

test data are not available for the complete mixture.

#### classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### acute toxicity

shall not be classified as acutely toxic.

#### skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

#### serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

#### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

#### carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

United Kingdom: en page: 6 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

### Lysis Buffer iL2

version number: GHS 2.0 revision: 2019-12-23 replaces version of: 2019-12-02 (GHS 1)

#### 12.6 other adverse effects

data are not available.

#### **SECTION 13: Disposal considerations**

#### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information**

14.1	UN number	not subject to transport regulations
------	-----------	--------------------------------------

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

14.4 packing group not assigned to a packing group

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

#### 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG)** 

not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

#### **SECTION 15: Regulatory information**

#### 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

United Kingdom: en page: 7 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

### Lysis Buffer iL2

version number: GHS 2.0 revision: 2019-12-23 replaces version of: 2019-12-02 (GHS 1)

#### **SECTION 16: Other information**

#### indication of changes (revised safety data sheet)

section	former entry (text/value)	actual entry (text/value)	safety-rel- evant
3.2	mixtures: description of the mixture	mixtures: description of the mixture	yes
		This mixture does not contain any potentially hazard- ous products.	

#### abbreviations and acronyms

abbr.	descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
vPvB	Very Persistent and very Bioaccumulative

#### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### classification procedure

physical and chemical properties: the classification is based on tested mixture.

health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

United Kingdom: en page: 8 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

### lysis buffer iL1

version number: GHS 1.1 date of compilation: 2020-01-23

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 product identifier

trade name lysis buffer iL1

registration number (REACH) not relevant (mixture)

#### 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

#### 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

#### 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre				
country	name	telephone		
United Kingdom National Poisons Information Service 111				

#### **SECTION 2: Hazards identification**

#### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

section	hazard class	category	hazard class and cat- egory	hazard state- ment
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

for full text of abbreviations: see SECTION 16.

the most important adverse physicochemical, human health and environmental effects spillage and fire water can cause pollution of watercourses.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP)

signal word not requiredpictograms not required

- hazard statements

H412 harmful to aquatic life with long lasting effects.

- precautionary statements

P273 avoid release to the environment.

P501 dispose of contents/container to industrial combustion plant.

United Kingdom: en page: 1 / 9



according to Regulation (EC) No. 1907/2006 (REACH)

### lysis buffer iL1

version number: GHS 1.1 date of compilation: 2020-01-23

#### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

#### description of the mixture

name of substance	identifier	wt%	classification acc. to GHS	pictograms
Triton X-100	CAS No 9002-93-1 EC No 618-344-0	≤1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

for full text of abbreviations: see SECTION 16.

#### **SECTION 4: First aid measures**

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

#### 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

#### 4.3 indication of any immediate medical attention and special treatment needed

none

#### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

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according to Regulation (EC) No. 1907/2006 (REACH)

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#### 5.2 special hazards arising from the substance or mixture

hazardous combustion products nitrogen oxides (NOx)

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

#### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

#### 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

#### 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

#### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

frost

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#### 7.3 specific end use(s)

see section 16 for a general overview.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 control parameters

this information is not available.

#### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

#### skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

respiratory protection

in case of inadequate ventilation wear respiratory protection.

environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

### 9.1 information on basic physical and chemical properties

#### appearance

physical state	liquid
colour	colourless
odour	odourless

#### other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined

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flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined
vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	not determined

#### partition coefficient

- n-octanol/water (log KOW)	this information is not available
auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none

#### **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

 $concerning\ incompatibility: see\ below\ "Conditions\ to\ avoid"\ and\ "Incompatible\ materials".$ 

#### 10.2 chemical stability

see below "Conditions to avoid".

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

there is no additional information.

#### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

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according to Regulation (EC) No. 1907/2006 (REACH)

### lysis buffer iL1

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#### **SECTION 11: Toxicological information**

#### 11.1 information on toxicological effects

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

germ cell mutagenicity

shall not be classified as germ cell mutagenic.

carcinogenicity

shall not be classified as carcinogenic.

reproductive toxicity

shall not be classified as a reproductive toxicant.

specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 toxicity

harmful to aquatic life with long lasting effects.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 other adverse effects

data are not available.

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according to Regulation (EC) No. 1907/2006 (REACH)

### lysis buffer iL1

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#### **SECTION 13: Disposal considerations**

#### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information**

14.1	UN number	not subject to transport regulations
------	-----------	--------------------------------------

14.2 UN proper shipping name not relevant
 14.3 transport hazard class(es) not assigned
 14.4 packing group not assigned

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

#### 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

#### transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR. not subject to RID.

# European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN)

identifier number 9006

proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

class 9 number of cones/blue lights 0

#### **International Maritime Dangerous Goods Code (IMDG)**

not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

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according to Regulation (EC) No. 1907/2006 (REACH)

# lysis buffer iL1

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#### **SECTION 15: Regulatory information**

### 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### abbreviations and acronyms

abbr.	descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agree- ment concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICA0	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations con- cerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
vPvB	Very Persistent and very Bioaccumulative

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according to Regulation (EC) No. 1907/2006 (REACH)

### lysis buffer iL1

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#### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### classification procedure

physical and chemical properties: the classification is based on tested mixture. health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### list of relevant phrases (code and full text as stated in chapter 2 and 3)

code	text
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

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according to Regulation (EC) No. 1907/2006 (REACH)

#### 5x ChIP Buffer iC1

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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 product identifier

trade name 5x ChIP Buffer iC1

registration number (REACH) not relevant (mixture)

#### 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

#### 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

#### 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

#### **SECTION 2: Hazards identification**

#### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

section	hazard class	category	hazard class and cat- egory	hazard state- ment
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
4.1C	hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

for full text of abbreviations: see SECTION 16.

the most important adverse physicochemical, human health and environmental effects spillage and fire water can cause pollution of watercourses.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP)

- signal word danger

- pictograms

GHS05, GHS09



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- hazard statements

H318 causes serious eye damage.

H411 toxic to aquatic life with long lasting effects.

- precautionary statements

P273 avoid release to the environment.

P280 wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P310 immediately call a POISON CENTER/doctor.

P391 collect spillage.

P501 dispose of contents/container to industrial combustion plant.

- hazardous ingredients for labelling Triton X-100

#### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

#### description of the mixture

name of substance	identifier	wt%	classification acc. to GHS	pictograms
Triton X-100	CAS No 9002-93-1 EC No 618-344-0	≤10	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

for full text of abbreviations: see SECTION 16.

#### **SECTION 4: First aid measures**

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

#### 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

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according to Regulation (EC) No. 1907/2006 (REACH)

#### 5x ChIP Buffer iC1

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#### 4.3 indication of any immediate medical attention and special treatment needed

none

#### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media water spray, BC-powder, carbon dioxide (CO2) unsuitable extinguishing media

water jet

#### 5.2 special hazards arising from the substance or mixture

hazardous combustion products

nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2)

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

#### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it. if substance has entered a water course or sewer, inform the responsible authority.

#### 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

#### 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

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#### **SECTION 7: Handling and storage**

#### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

#### advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

#### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

frost

packaging compatibilities
 only packagings which are approved (e.g. acc. to ADR) may be used.

#### 7.3 specific end use(s)

see section 16 for a general overview.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 control parameters

this information is not available.

#### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

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### **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties appearance

physical state	liquid
colour	colourless
odour	odourless

#### other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined
vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	not determined

#### partition coefficient

- n-octanol/water (log KOW)	this information is not available
auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none

# 9.2 other information there is no additional information

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#### **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 chemical stability

see below "Conditions to avoid".

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

oxidisers

#### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

#### **SECTION 11: Toxicological information**

#### 11.1 information on toxicological effects

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

causes serious eye damage.

respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

germ cell mutagenicity

shall not be classified as germ cell mutagenic.

carcinogenicity

shall not be classified as carcinogenic.

reproductive toxicity

shall not be classified as a reproductive toxicant.

specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

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#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 toxicity

toxic to aquatic life with long lasting effects.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 other adverse effects

data are not available.

### **SECTION 13: Disposal considerations**

#### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

#### waste treatment of containers/packagings

it is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information**

14.1	UN number	3082

**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

technical name (hazardous ingredients)

Triton X-100

14.3 transport hazard class(es)

class 9 (environmentally hazardous)

14.5 environmental hazards hazardous to the aquatic environment

environmentally hazardous substance (aquatic Triton X-100

#### 14.6 special precautions for user

environment)

provisions for dangerous goods (ADR) should be complied within the premises.

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### 5x ChIP Buffer iC1

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#### 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

#### transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number 3082

proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

class 9
classification code M6
packing group III

danger label(s) 9, fish and tree

environmental hazards yes (hazardous to the aquatic environment)

special provisions (SP) 274, 335, 375, 601

excepted quantities (EQ)

limited quantities (LQ)

transport category (TC)

tunnel restriction code (TRC)

hazard identification No

Emergency Action Code

E1

5 L

7

6 PO

7

7

8 PO

#### **International Maritime Dangerous Goods Code (IMDG)**

UN number 3082

proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

class 9

marine pollutant yes (hazardous to the aquatic environment)

packing group III

danger label(s) 9, fish and tree

special provisions (SP) 274, 335, 969

excepted quantities (EQ) E1
limited quantities (LQ) 5 L
EmS F-A, S-F

stowage category A

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#### International Civil Aviation Organization (ICAO-IATA/DGR)

UN number 3082

proper shipping name Environmentally hazardous substance, liquid, n.o.s.

class 9

environmental hazards yes (hazardous to the aquatic environment)

packing group III

danger label(s) 9, fish and tree

special provisions (SP) A97, A158, A197

excepted quantities (EQ) E1 limited quantities (LQ) 30 kg

#### **SECTION 15: Regulatory information**

### 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### indication of changes (revised safety data sheet)

section	former entry (text/value)	actual entry (text/value)	safety-rel- evant
1.1	product code(s): C01019015		yes
3.2	mixtures	mixtures: description of the mixture	yes

#### abbreviations and acronyms

abbr.	descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)

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according to Regulation (EC) No. 1907/2006 (REACH)

### 5x ChIP Buffer iC1

version number: GHS 2.1 revision: 2020-01-23 replaces version of: 2019-11-26 (GHS 1)

abbr.	descriptions of used abbreviations
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
vPvB	Very Persistent and very Bioaccumulative

#### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### classification procedure

physical and chemical properties: the classification is based on tested mixture.

health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### list of relevant phrases (code and full text as stated in chapter 2 and 3)

code	text
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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### 5x ChIP Buffer iC1

version number: GHS 2.1 revision: 2020-01-23 replaces version of: 2019-11-26 (GHS 1)

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

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according to Regulation (EC) No. 1907/2006 (REACH)

### **Tagmentation buffer**

version number: GHS 1.0 date of compilation: 2020-05-26

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 product identifier

trade name Tagmentation buffer registration number (REACH) not relevant (mixture)

#### 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

#### 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

#### 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

#### **SECTION 2: Hazards identification**

#### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

section	hazard class	category	hazard class and cat- egory	hazard state- ment
2.6	flammable liquid	3	Flam. Liq. 3	H226
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.7	reproductive toxicity	1B	Repr. 1B	H360D

for full text of abbreviations: see SECTION 16.

the most important adverse physicochemical, human health and environmental effects the product is combustible and can be ignited by potential ignition sources.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP)

- signal word danger

- pictograms

GHS02, GHS07, GHS08



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according to Regulation (EC) No. 1907/2006 (REACH)

### **Tagmentation buffer**

version number: GHS 1.0 date of compilation: 2020-05-26

#### - hazard statements

H319 flammable liquid and vapour.
H319 causes serious eye irritation.
H360D may damage the unborn child.

#### - precautionary statements

P210 keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.
P337+P313 if eye irritation persists: Get medical advice/attention.

P370+P378 in case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.

P403+P235 store in a well-ventilated place. Keep cool.

P501 dispose of contents/container to industrial combustion plant.

- hazardous ingredients for labelling

N,N-dimethylformamide

#### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

#### description of the mixture

name of substance	identifier	wt%	classification acc. to GHS	pictograms
N,N-dimethylformamide	CAS No 68-12-2	≤10	Flam. Liq. 3 / H226 Acute Tox. 4 / H312 Acute Tox. 3 / H331	
	EC No 200-679-5		Eye Irrit. 2 / H319 Repr. 1B / H360D	· · ·
	index No 616-001-00-X			
	REACH Reg. No 01-2119475605-32-xxxx			

for full text of abbreviations: see SECTION 16.

#### **SECTION 4: First aid measures**

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

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according to Regulation (EC) No. 1907/2006 (REACH)

### **Tagmentation buffer**

version number: GHS 1.0 date of compilation: 2020-05-26

following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

#### 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

#### 4.3 indication of any immediate medical attention and special treatment needed

none

#### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

#### 5.2 special hazards arising from the substance or mixture

in case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. solvent vapours are heavier than air and may spread along floors. places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

hazardous combustion products

nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2)

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

#### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

#### 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

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### **Tagmentation buffer**

version number: GHS 1.0 date of compilation: 2020-05-26

#### 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation

use local and general ventilation. avoidance of ignition sources. keep away from sources of ignition - No smoking. take precautionary measures against static discharge. use only in well-ventilated areas. due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. ground/bond container and receiving equipment. use explosion-proof electrical/ventilating/lighting/equipment. use only non-sparking tools.

- specific notes/details

places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. vapours are heavier than air, spread along floors and form explosive mixtures with air. vapours may form explosive mixtures with air.

#### advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

#### 7.2 conditions for safe storage, including any incompatibilities

managing of associated risks

- explosive atmospheres

keep container tightly closed and in a well-ventilated place. use local and general ventilation. keep cool. protect from sunlight.

- flammability hazards

keep away from sources of ignition - No smoking. keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. take precautionary measures against static discharge. protect from sunlight.

#### control of effects

protect against external exposure, such as

frost

- ventilation requirements

use local and general ventilation. ground/bond container and receiving equipment.

- packaging compatibilities

only packagings which are approved (e.g. acc. to ADR) may be used.

#### 7.3 specific end use(s)

see section 16 for a general overview.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 control parameters

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according to Regulation (EC) No. 1907/2006 (REACH)

# **Tagmentation buffer**

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occupational exposure limit values (Workplace Exposure Limits)

coun- try	name of agent	CAS No	identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	nota- tion	source
EU	N,N-dimethylform- amide	68-12-2	IOELV	5	15	10	30				2009/ 161/EU
GB	N,N-dimethylform- amide	68-12-2	WEL	5	15	10	30				EH40/ 2005

notation

Ceiling-C

ceiling value is a limit value above which exposure should not occur

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (un-

less otherwise specified)

TWA

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-

weighted average (unless otherwise specified)

#### relevant DNELs of components of the mixture

'							
name of substance	CAS No	endpoint	threshold level	protection goal, route of exposure	used in	exposure time	
N,N-dimethylformamide	68-12-2	DNEL	15 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects	
N,N-dimethylformamide	68-12-2	DNEL	30 mg/m³	human, inhalatory	worker (industry)	acute - systemic ef- fects	
N,N-dimethylformamide	68-12-2	DNEL	15 mg/m³	human, inhalatory	worker (industry)	chronic - local ef- fects	
N,N-dimethylformamide	68-12-2	DNEL	30 mg/m³	human, inhalatory	worker (industry)	acute - local effects	
N,N-dimethylformamide	68-12-2	DNEL	3.31 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects	
N,N-dimethylformamide	68-12-2	DNEL	26.3 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic ef- fects	
N,N-dimethylformamide	68-12-2	DNEL	446 μg/cm²	human, dermal	worker (industry)	chronic - local ef- fects	
N,N-dimethylformamide	68-12-2	DNEL	5,900 μg/cm²	human, dermal	worker (industry)	acute - local effects	

#### relevant PNECs of components of the mixture

name of substance	CAS No	endpoint	threshold level	organism	environmental compartment	exposure time
N,N-dimethylformamide	68-12-2	PNEC	30 <sup>mg</sup> / <sub>1</sub>	aquatic organisms	freshwater	short-term (single instance)
N,N-dimethylformamide	68-12-2	PNEC	3 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)
N,N-dimethylformamide	68-12-2	PNEC	123 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
N,N-dimethylformamide	68-12-2	PNEC	115.2 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sedi- ment	short-term (single instance)
N,N-dimethylformamide	68-12-2	PNEC	11.52 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)
N,N-dimethylformamide	68-12-2	PNEC	56.97 <sup>mg</sup> / <sub>kg</sub>	terrestrial organisms	soil	short-term (single instance)

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according to Regulation (EC) No. 1907/2006 (REACH)

### **Tagmentation buffer**

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#### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

#### skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

### **SECTION 9: Physical and chemical properties**

## 9.1 information on basic physical and chemical properties

#### appearance

physical state	liquid
colour	colourless
odour	characteristic

#### other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined
vapour pressure	not determined
density	not determined

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### **Tagmentation buffer**

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Trainbert one 1.0	
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	not determined
partition coefficient	
- n-octanol/water (log KOW)	this information is not available
auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none

### **SECTION 10: Stability and reactivity**

other information

#### 10.1 reactivity

9.2

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". the mixture contains reactive substance(s). risk of ignition.

there is no additional information

if heated:

risk of ignition

#### 10.2 chemical stability

see below "Conditions to avoid".

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### hints to prevent fire or explosion

use explosion-proof electrical/ventilating/lighting/equipment. use only non-sparking tools. take precautionary measures against static discharge.

#### 10.5 incompatible materials

oxidisers

#### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

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according to Regulation (EC) No. 1907/2006 (REACH)

### **Tagmentation buffer**

version number: GHS 1.0 date of compilation: 2020-05-26

#### **SECTION 11: Toxicological information**

#### 11.1 information on toxicological effects

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

causes serious eye irritation.

respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

germ cell mutagenicity

shall not be classified as germ cell mutagenic.

carcinogenicity

shall not be classified as carcinogenic.

reproductive toxicity

may damage the unborn child.

specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 other adverse effects

data are not available.

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according to Regulation (EC) No. 1907/2006 (REACH)

### **Tagmentation buffer**

version number: GHS 1.0 date of compilation: 2020-05-26

#### **SECTION 13: Disposal considerations**

#### 13.1 waste treatment methods

waste treatment-relevant information

solvent reclamation/regeneration.

#### sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

#### waste treatment of containers/packagings

it is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information**

1/1 1	UN number	1993
14.1	ON Hulliber	1773

#### **14.2 UN proper shipping name** FLAMMABLE LIQUID, N.O.S.

technical name (hazardous ingredients) N,N-dimethylformamide

14.3 transport hazard class(es)

class 3 (flammable liquids)

14.4 packing group | | | | (substance presenting low danger)

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

provisions for dangerous goods (ADR) should be complied within the premises.

#### 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

#### transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number 1993

proper shipping name FLAMMABLE LIQUID, N.O.S.

class 3
classification code F1
packing group III
danger label(s) 3



special provisions (SP)	274, 601
excepted quantities (EQ)	E1
limited quantities (LQ)	5 L

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### **Tagmentation buffer**

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transport category (TC) 3
tunnel restriction code (TRC) D/E
hazard identification No 30
Emergency Action Code 3Y

#### **International Maritime Dangerous Goods Code (IMDG)**

UN number 1993

proper shipping name FLAMMABLE LIQUID, N.O.S.

class 3
marine pollutant packing group III
danger label(s) 3



special provisions (SP) 223, 274, 955

excepted quantities (EQ) E1 limited quantities (LQ) 5 L EmS F-E,  $\underline{S-E}$  stowage category A

#### International Civil Aviation Organization (ICAO-IATA/DGR)

UN number 1993

proper shipping name Flammable liquid, n.o.s.

class 3
packing group III
danger label(s) 3



special provisions (SP)

excepted quantities (EQ)

limited quantities (LQ)

A3

E1

10 L

#### **SECTION 15: Regulatory information**

#### 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

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according to Regulation (EC) No. 1907/2006 (REACH)

# **Tagmentation buffer**

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### **SECTION 16: Other information**

### abbreviations and acronyms

abbr. descriptions of used abbreviations			
2009/161/EU	Commission Directive establishing a third list of indicative occupational exposure limit values in implemention of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC		
Acute Tox.	Acute toxicity		
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigatior intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Wate ways)		
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agre ment concerning the International Carriage of Dangerous Goods by Road)		
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)		
Ceiling-C	Ceiling value		
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures		
DGR	Dangerous Goods Regulations (see IATA/DGR)		
DNEL	Derived No-Effect Level		
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifing of substances commercially available within the EU (European Union)		
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence		
EINECS	European Inventory of Existing Commercial Chemical Substances		
ELINCS	European List of Notified Chemical Substances		
EmS	Emergency Schedule		
Eye Dam.	Seriously damaging to the eye		
Eye Irrit.	Irritant to the eye		
Flam. Liq.	Flammable liquid		
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations		
IATA	International Air Transport Association		
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)		
ICA0	International Civil Aviation Organization		
IMDG	International Maritime Dangerous Goods Code		
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) N 1272/2008		
IOELV	Indicative occupational exposure limit value		
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")		
NLP	No-Longer Polymer		
PBT	Persistent, Bioaccumulative and Toxic		
PNEC	Predicted No-Effect Concentration		
ppm	Parts per million		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals		
Repr.	Reproductive toxicity		

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according to Regulation (EC) No. 1907/2006 (REACH)

### **Tagmentation buffer**

version number: GHS 1.0 date of compilation: 2020-05-26

abbr.	descriptions of used abbreviations		
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)		
STEL	Short-term exposure limit		
TWA	Time-weighted average		
vPvB	Very Persistent and very Bioaccumulative		
WEL	Workplace exposure limit		

#### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### classification procedure

physical and chemical properties: the classification is based on tested mixture.

health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### list of relevant phrases (code and full text as stated in chapter 2 and 3)

code	text
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H360D	May damage the unborn child.

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

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according to Regulation (EC) No. 1907/2006 (REACH)

### wash buffer tagW1

date of compilation: 2020-05-26 version number: GHS 1.0

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### product identifier 1.1

wash buffer tagW1 trade name registration number (REACH) not relevant (mixture)

#### relevant identified uses of the substance or mixture and uses advised against 1.2

relevant identified uses

for research use only, not for use in diagnostic or

therapeutic procedures.

#### 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

#### 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre					
country	name	telephone			
United Kingdom	National Poisons Information Service	111			

#### **SECTION 2: Hazards identification**

#### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

#### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures description of the mixture

This mixture does not contain any potentially hazardous products.

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according to Regulation (EC) No. 1907/2006 (REACH)

## wash buffer tagW1

version number: GHS 1.0 date of compilation: 2020-05-26

#### **SECTION 4: First aid measures**

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

## 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

### 4.3 indication of any immediate medical attention and special treatment needed

none

### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

### 5.2 special hazards arising from the substance or mixture

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

#### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

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according to Regulation (EC) No. 1907/2006 (REACH)

## wash buffer tagW1

version number: GHS 1.0 date of compilation: 2020-05-26

#### 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

## 6.4 reference to other sections

personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

#### **SECTION 7: Handling and storage**

### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

#### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as frost

. . . . . . . . .

### 7.3 specific end use(s)

see section 16 for a general overview.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 control parameters

this information is not available.

## 8.2 exposure controls

appropriate engineering controls general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

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according to Regulation (EC) No. 1907/2006 (REACH)

## wash buffer tagW1

version number: GHS 1.0 date of compilation: 2020-05-26

#### skin protection

#### - hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties appearance

physical state	liquid
colour	colourless
odour	odourless

#### other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined
vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	not determined

## partition coefficient

- n-octanol/water (log KOW)	this information is not available
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according to Regulation (EC) No. 1907/2006 (REACH)

## wash buffer tagW1

version number: GHS 1.0 date of compilation: 2020-05-26

oxidising properties	none
explosive properties	not determined none
auto-ignition temperature	not determined

## **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

9.2

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

there is no additional information.

#### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

### 11.1 information on toxicological effects

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

germ cell mutagenicity

shall not be classified as germ cell mutagenic.

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according to Regulation (EC) No. 1907/2006 (REACH)

## wash buffer tagW1

version number: GHS 1.0 date of compilation: 2020-05-26

#### carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 other adverse effects

data are not available.

### **SECTION 13: Disposal considerations**

#### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

## waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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according to Regulation (EC) No. 1907/2006 (REACH)

## wash buffer tagW1

version number: GHS 1.0 date of compilation: 2020-05-26

### **SECTION 14: Transport information**

**14.1 UN number** not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

14.4 packing group not assigned to a packing group

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

## 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR, RID and ADN.

#### **International Maritime Dangerous Goods Code (IMDG)**

not subject to IMDG.

### International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

#### **SECTION 15: Regulatory information**

## 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

### abbreviations and acronyms

abbr.	descriptions of used abbreviations	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agree- ment concerning the International Carriage of Dangerous Goods by Road)	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	

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according to Regulation (EC) No. 1907/2006 (REACH)

## wash buffer tagW1

version number: GHS 1.0 date of compilation: 2020-05-26

abbr.	descriptions of used abbreviations	
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	
PBT	Persistent, Bioaccumulative and Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
vPvB	Very Persistent and very Bioaccumulative	

### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### classification procedure

physical and chemical properties: the classification is based on tested mixture.

health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

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according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer tagW2

version number: GHS 1.0 date of compilation: 2020-05-26

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 product identifier

trade name Wash Buffer tagW2 registration number (REACH) not relevant (mixture)

## 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses

for research use only, not for use in diagnostic or therapeutic procedures.

### 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

#### 1.4 emergency telephone number

emergency information service

+32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

#### **SECTION 2: Hazards identification**

#### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

section	hazard class	category	hazard class and cat- egory	hazard state- ment
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
4.1C	4.1C hazardous to the aquatic environment - chronic hazard		Aquatic Chronic 3	H412

for full text of abbreviations: see SECTION 16.

the most important adverse physicochemical, human health and environmental effects spillage and fire water can cause pollution of watercourses.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP)

- signal word warning

- pictograms

GHS07



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according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer tagW2

version number: GHS 1.0 date of compilation: 2020-05-26

- hazard statements

H319 causes serious eye irritation.

H412 harmful to aquatic life with long lasting effects.

- precautionary statements

P273 avoid release to the environment.

P280 wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337+P313 if eye irritation persists: Get medical advice/attention.
P501 dispose of contents/container to industrial combustion plant.

#### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### 3.2 mixtures

#### description of the mixture

name of substance	identifier	wt%	classification acc. to GHS	pictograms
Triton X-100	CAS No 9002-93-1 EC No 618-344-0	≤1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

for full text of abbreviations: see SECTION 16.

#### **SECTION 4: First aid measures**

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

### 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

## 4.3 indication of any immediate medical attention and special treatment needed

none

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according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer tagW2

version number: GHS 1.0 date of compilation: 2020-05-26

### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media water spray, BC-powder, carbon dioxide (CO2) unsuitable extinguishing media water jet

### 5.2 special hazards arising from the substance or mixture

hazardous combustion products nitrogen oxides (NOx)

### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

### **SECTION 6: Accidental release measures**

### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

## 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

#### 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

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according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer tagW2

version number: GHS 1.0 date of compilation: 2020-05-26

#### **SECTION 7: Handling and storage**

#### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

#### advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

#### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

#### 7.3 specific end use(s)

see section 16 for a general overview.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 control parameters

this information is not available.

#### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

skin protection

- hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

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according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer tagW2

version number: GHS 1.0 date of compilation: 2020-05-26

## **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties appearance

physical state	liquid
colour	colourless
odour	odourless

## other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined
vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	not determined

### partition coefficient

- n-octanol/water (log KOW)	this information is not available
auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none

## 9.2 other information there is no additional information

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according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer tagW2

version number: GHS 1.0 date of compilation: 2020-05-26

## **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 chemical stability

see below "Conditions to avoid".

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

### 10.5 incompatible materials

there is no additional information.

#### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

### 11.1 information on toxicological effects

test data are not available for the complete mixture.

#### classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

#### acute toxicity

shall not be classified as acutely toxic.

#### skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

#### serious eye damage/eye irritation

causes serious eye irritation.

#### respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

#### carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

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according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer tagW2

version number: GHS 1.0 date of compilation: 2020-05-26

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

### **SECTION 12: Ecological information**

#### 12.1 toxicity

harmful to aquatic life with long lasting effects.

### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 other adverse effects

data are not available.

## **SECTION 13: Disposal considerations**

## 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

#### waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information**

14.1	UN number	not subject to transport regulations	
14.2	UN proper shipping name	not relevant	
14.3	transport hazard class(es)	not assigned	
14.4	packing group	not assigned	
14.5	environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations	

#### 14.6 special precautions for user

there is no additional information.

## 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

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according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer tagW2

version number: GHS 1.0 date of compilation: 2020-05-26

#### Information for each of the UN Model Regulations

### transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR. not subject to RID.

# European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN)

identifier number 9006

proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

class 9 number of cones/blue lights 0

#### **International Maritime Dangerous Goods Code (IMDG)**

not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

#### **SECTION 15: Regulatory information**

## 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### abbreviations and acronyms

abbr.	descriptions of used abbreviations		
Acute Tox.	Acute toxicity		
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)		
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agree- ment concerning the International Carriage of Dangerous Goods by Road)		
Aquatic Acute	Hazardous to the aquatic environment - acute hazard		
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard		
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)		
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures		
DGR	Dangerous Goods Regulations (see IATA/DGR)		
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)		
EINECS	European Inventory of Existing Commercial Chemical Substances		
ELINCS	European List of Notified Chemical Substances		
Eye Dam.	Seriously damaging to the eye		
Eye Irrit.	Irritant to the eye		
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations		

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according to Regulation (EC) No. 1907/2006 (REACH)

## Wash Buffer tagW2

version number: GHS 1.0 date of compilation: 2020-05-26

abbr.	descriptions of used abbreviations		
IATA	International Air Transport Association		
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)		
ICAO	International Civil Aviation Organization		
IMDG	International Maritime Dangerous Goods Code		
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008		
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")		
NLP	No-Longer Polymer		
PBT	Persistent, Bioaccumulative and Toxic		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals		
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)		
Skin Corr.	Corrosive to skin		
Skin Irrit.	Irritant to skin		
vPvB	Very Persistent and very Bioaccumulative		

## key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### classification procedure

physical and chemical properties: the classification is based on tested mixture. health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## list of relevant phrases (code and full text as stated in chapter 2 and 3)

code	text
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

United Kingdom: en page: 9 / 9



according to Regulation (EC) No. 1907/2006 (REACH)

## **Stripping Reagent**

version number: GHS 1.0 date of compilation: 2020-05-26

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 product identifier

trade name Stripping Reagent registration number (REACH) not relevant (mixture)

### 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

### 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

#### 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

#### **SECTION 2: Hazards identification**

#### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### **3.2 mixtures** description of the mixture

This mixture does not contain any potentially hazardous products.

United Kingdom: en page: 1 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

## **Stripping Reagent**

version number: GHS 1.0 date of compilation: 2020-05-26

#### **SECTION 4: First aid measures**

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

### 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

## 4.3 indication of any immediate medical attention and special treatment needed

none

### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

### 5.2 special hazards arising from the substance or mixture

hazardous combustion products

nitrogen oxides (NOx)

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

### **SECTION 6: Accidental release measures**

#### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

United Kingdom: en page: 2 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

## **Stripping Reagent**

version number: GHS 1.0 date of compilation: 2020-05-26

## 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

## 6.4 reference to other sections

hazardous combustion products: see section 5. personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

### **SECTION 7: Handling and storage**

### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

#### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

frost

#### 7.3 specific end use(s)

see section 16 for a general overview.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 control parameters

this information is not available.

#### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

United Kingdom: en page: 3 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

## **Stripping Reagent**

version number: GHS 1.0 date of compilation: 2020-05-26

#### skin protection

#### - hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties appearance

physical state	liquid
colour	colourless
odour	odourless

#### other safety parameters

pH (value)	not determined	
melting point/freezing point	not determined	
initial boiling point and boiling range	not determined	
flash point	not determined	
evaporation rate	not determined	
flammability (solid, gas)	not relevant, (fluid)	
explosive limits	not determined	
vapour pressure	not determined	
density	not determined	
vapour density	this information is not available	
relative density	information on this property is not available	
solubility(ies)	not determined	

#### partition coefficient

- n-octanol/water (log KOW)	this information is not available
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United Kingdom: en page: 4 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

## **Stripping Reagent**

version number: GHS 1.0 date of compilation: 2020-05-26

auto-ignition temperature	not determined
viscosity	not determined
explosive properties	none
oxidising properties	none
other information	there is no additional information

9.2

## **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

there is no additional information.

#### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

### information on toxicological effects

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

germ cell mutagenicity

shall not be classified as germ cell mutagenic.

United Kingdom: en page: 5 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

## **Stripping Reagent**

version number: GHS 1.0 date of compilation: 2020-05-26

#### carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

## **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 other adverse effects

data are not available.

### **SECTION 13: Disposal considerations**

#### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

## waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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according to Regulation (EC) No. 1907/2006 (REACH)

## **Stripping Reagent**

version number: GHS 1.0 date of compilation: 2020-05-26

### **SECTION 14: Transport information**

**14.1 UN number** not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

14.4 packing group not assigned to a packing group

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

## 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR, RID and ADN.

#### **International Maritime Dangerous Goods Code (IMDG)**

not subject to IMDG.

### International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

#### **SECTION 15: Regulatory information**

## 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

### abbreviations and acronyms

abbr.	descriptions of used abbreviations	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	

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according to Regulation (EC) No. 1907/2006 (REACH)

## **Stripping Reagent**

version number: GHS 1.0 date of compilation: 2020-05-26

abbr.	descriptions of used abbreviations	
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	
PBT	Persistent, Bioaccumulative and Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
vPvB	Very Persistent and very Bioaccumulative	

### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### classification procedure

physical and chemical properties: the classification is based on tested mixture.

health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

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according to Regulation (EC) No. 1907/2006 (REACH)

## MgCl2

version number: GHS 1.0 date of compilation: 2020-05-26

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 product identifier

trade name MgCl2

registration number (REACH) not relevant (mixture)

### 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

### 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

#### 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

#### **SECTION 2: Hazards identification**

#### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### **3.2 mixtures** description of the mixture

This mixture does not contain any potentially hazardous products.

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according to Regulation (EC) No. 1907/2006 (REACH)

## MgCl2

version number: GHS 1.0 date of compilation: 2020-05-26

#### **SECTION 4: First aid measures**

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

## 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

## 4.3 indication of any immediate medical attention and special treatment needed

none

## **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

### 5.2 special hazards arising from the substance or mixture

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

#### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

## 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

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according to Regulation (EC) No. 1907/2006 (REACH)

## MgCl2

version number: GHS 1.0 date of compilation: 2020-05-26

#### 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

## 6.4 reference to other sections

personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

#### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as

frost

## 7.3 specific end use(s)

see section 16 for a general overview.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 control parameters

this information is not available.

#### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

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according to Regulation (EC) No. 1907/2006 (REACH)

## MgCl2

version number: GHS 1.0 date of compilation: 2020-05-26

#### skin protection

#### - hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties appearance

physical state	liquid
colour	colourless
odour	odourless

#### other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined
vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available
solubility(ies)	not determined

#### partition coefficient

- n-octanol/water (log KOW)	this information is not available
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according to Regulation (EC) No. 1907/2006 (REACH)

## MgCl2

version number: GHS 1.0 date of compilation: 2020-05-26

other information	there is no additional information
oxidising properties	none
explosive properties	none
viscosity	not determined
auto-ignition temperature	not determined

## **SECTION 10: Stability and reactivity**

### 10.1 reactivity

9.2

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

there is no additional information.

#### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

### 11.1 information on toxicological effects

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

germ cell mutagenicity

shall not be classified as germ cell mutagenic.

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according to Regulation (EC) No. 1907/2006 (REACH)

## MgCl2

version number: GHS 1.0 date of compilation: 2020-05-26

#### carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

#### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 other adverse effects

data are not available.

### **SECTION 13: Disposal considerations**

#### 13.1 waste treatment methods

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

## waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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according to Regulation (EC) No. 1907/2006 (REACH)

## MgCl2

version number: GHS 1.0 date of compilation: 2020-05-26

## **SECTION 14: Transport information**

**14.1 UN number** not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

14.4 packing group not assigned to a packing group

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

## 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR, RID and ADN.

#### **International Maritime Dangerous Goods Code (IMDG)**

not subject to IMDG.

### International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

#### **SECTION 15: Regulatory information**

## 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

### abbreviations and acronyms

abbr.	descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agree- ment concerning the International Carriage of Dangerous Goods by Road)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code

United Kingdom: en page: 7 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

## MgCl2

version number: GHS 1.0 date of compilation: 2020-05-26

abbr.	descriptions of used abbreviations
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
vPvB	Very Persistent and very Bioaccumulative

### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### classification procedure

physical and chemical properties: the classification is based on tested mixture.

health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

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according to Regulation (EC) No. 1907/2006 (REACH)

## resuspension buffer

version number: GHS 1.0 date of compilation: 2020-05-26

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 product identifier

trade name resuspension buffer registration number (REACH) not relevant (mixture)

### 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses for research use only, not for use in diagnostic or

therapeutic procedures.

### 1.3 details of the supplier of the safety data sheet

Diagenode SA LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3 4102 Seraing Belgium

telephone: +32 4 364 20 50 e-mail: info@diagenode.com

#### 1.4 emergency telephone number

emergency information service +32 4 364 20 50

this number is only available during the following of-

fice hours: Mon-Fri 09:00 AM - 05:00 PM

poison centre		
country	name	telephone
United Kingdom	National Poisons Information Service	111

#### **SECTION 2: Hazards identification**

#### 2.1 classification of the substance or mixture

classification according to Regulation (EC) No 1272/2008 (CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 label elements

labelling according to Regulation (EC) No 1272/2008 (CLP) not required

### 2.3 other hazards

results of PBT and vPvB assessment

this mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 substances

not relevant (mixture)

#### **3.2 mixtures** description of the mixture

This mixture does not contain any potentially hazardous products.

United Kingdom: en page: 1 / 8



according to Regulation (EC) No. 1907/2006 (REACH)

## resuspension buffer

version number: GHS 1.0 date of compilation: 2020-05-26

#### **SECTION 4: First aid measures**

#### 4.1 description of first aid measures

#### general notes

do not leave affected person unattended. remove victim out of the danger area. keep affected person warm, still and covered. take off immediately all contaminated clothing. in all cases of doubt, or when symptoms persist, seek medical advice. in case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### following inhalation

if breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. provide fresh air.

#### following skin contact

wash with plenty of soap and water.

#### following eye contact

remove contact lenses, if present and easy to do. Continue rinsing. irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### following ingestion

rinse mouth with water (only if the person is conscious). do NOT induce vomiting.

## 4.2 most important symptoms and effects, both acute and delayed

symptoms and effects are not known to date.

## 4.3 indication of any immediate medical attention and special treatment needed

none

### **SECTION 5: Firefighting measures**

#### 5.1 extinguishing media

suitable extinguishing media

water spray, alcohol resistant foam, BC-powder, carbon dioxide (CO2)

unsuitable extinguishing media

water jet

## 5.2 special hazards arising from the substance or mixture

#### 5.3 advice for firefighters

in case of fire and/or explosion do not breathe fumes. co-ordinate firefighting measures to the fire surroundings. do not allow firefighting water to enter drains or water courses. collect contaminated firefighting water separately. fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

### 6.1 personal precautions, protective equipment and emergency procedures

for non-emergency personnel

remove persons to safety.

for emergency responders

wear breathing apparatus if exposed to vapours/dust/spray/gases.

## 6.2 environmental precautions

keep away from drains, surface and ground water. retain contaminated washing water and dispose of it.

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#### 6.3 methods and material for containment and cleaning up

advice on how to contain a spill

covering of drains

advice on how to clean up a spill

wipe up with absorbent material (e.g. cloth, fleece). collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

appropriate containment techniques

use of adsorbent materials.

other information relating to spills and releases

place in appropriate containers for disposal. ventilate affected area.

#### 6.4 reference to other sections

personal protective equipment: see section 8. incompatible materials: see section 10. disposal considerations: see section 13.

#### **SECTION 7: Handling and storage**

### 7.1 precautions for safe handling

recommendations

- measures to prevent fire as well as aerosol and dust generation use local and general ventilation. use only in well-ventilated areas.

advice on general occupational hygiene

wash hands after use. do not eat, drink and smoke in work areas. remove contaminated clothing and protective equipment before entering eating areas. never keep food or drink in the vicinity of chemicals. never place chemicals in containers that are normally used for food or drink. keep away from food, drink and animal feedingstuffs.

#### 7.2 conditions for safe storage, including any incompatibilities

control of effects

protect against external exposure, such as frost

7.3 specific end use(s)

see section 16 for a general overview.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 control parameters

this information is not available.

#### 8.2 exposure controls

appropriate engineering controls

general ventilation.

individual protection measures (personal protective equipment)

eye/face protection

wear eye/face protection.

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#### skin protection

#### - hand protection

wear suitable gloves. chemical protection gloves are suitable, which are tested according to EN 374. check leak-tightness/ impermeability prior to use. in the case of wanting to use the gloves again, clean them before taking off and air them well. for special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - other protection measures

take recovery periods for skin regeneration. preventive skin protection (barrier creams/ointments) is recommended. wash hands thoroughly after handling.

#### respiratory protection

in case of inadequate ventilation wear respiratory protection.

#### environmental exposure controls

use appropriate container to avoid environmental contamination. keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

# 9.1 information on basic physical and chemical properties appearance

physical state	liquid
colour	colourless
odour	odourless

#### other safety parameters

pH (value)	not determined
melting point/freezing point	not determined
initial boiling point and boiling range	not determined
flash point	not determined
evaporation rate	not determined
flammability (solid, gas)	not relevant, (fluid)
explosive limits	not determined
vapour pressure	not determined
density	not determined
vapour density	this information is not available
relative density	information on this property is not available

## solubility(ies)

- water solubility
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#### partition coefficient

auto-ignition temperature not determined  viscosity not determined  explosive properties none  oxidising properties none	other information	there is no additional information
viscosity not determined	oxidising properties	none
g	explosive properties	none
auto-ignition temperature not determined	viscosity	not determined
	auto-ignition temperature	not determined
- n-octanol/water (log KOW) this information is not available	- n-octanol/water (log KOW)	this information is not available

## **SECTION 10: Stability and reactivity**

#### 10.1 reactivity

9.2

concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 chemical stability

the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 possibility of hazardous reactions

no known hazardous reactions.

#### 10.4 conditions to avoid

there are no specific conditions known which have to be avoided.

#### 10.5 incompatible materials

there is no additional information.

#### 10.6 hazardous decomposition products

reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

#### 11.1 information on toxicological effects

test data are not available for the complete mixture.

classification procedure

the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## classification according to GHS (1272/2008/EC, CLP)

this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

acute toxicity

shall not be classified as acutely toxic.

skin corrosion/irritation

shall not be classified as corrosive/irritant to skin.

serious eye damage/eye irritation

shall not be classified as seriously damaging to the eye or eye irritant.

respiratory or skin sensitisation

shall not be classified as a respiratory or skin sensitiser.

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#### germ cell mutagenicity

shall not be classified as germ cell mutagenic.

#### carcinogenicity

shall not be classified as carcinogenic.

#### reproductive toxicity

shall not be classified as a reproductive toxicant.

#### specific target organ toxicity - single exposure

shall not be classified as a specific target organ toxicant (single exposure).

#### specific target organ toxicity - repeated exposure

shall not be classified as a specific target organ toxicant (repeated exposure).

#### aspiration hazard

shall not be classified as presenting an aspiration hazard.

## **SECTION 12: Ecological information**

#### 12.1 toxicity

shall not be classified as hazardous to the aquatic environment.

#### 12.2 persistence and degradability

data are not available.

### 12.3 bioaccumulative potential

data are not available.

#### 12.4 mobility in soil

data are not available.

#### 12.5 results of PBT and vPvB assessment

data are not available.

#### 12.6 other adverse effects

data are not available.

### **SECTION 13: Disposal considerations**

#### 13.1 waste treatment methods

waste treatment-relevant information

recycling/reclamation of other inorganic materials.

sewage disposal-relevant information

do not empty into drains. avoid release to the environment. Refer to special instructions/safety data sheets.

waste treatment of containers/packagings

completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself.

#### remarks

please consider the relevant national or regional provisions. waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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### **SECTION 14: Transport information**

**14.1 UN number** not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 transport hazard class(es) none

**14.4 packing group** not assigned to a packing group

14.5 environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

#### 14.6 special precautions for user

there is no additional information.

## 14.7 transport in bulk according to Annex II of MARPOL and the IBC Code

the cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

not subject to ADR, RID and ADN.

#### **International Maritime Dangerous Goods Code (IMDG)**

not subject to IMDG.

### International Civil Aviation Organization (ICAO-IATA/DGR)

not subject to ICAO-IATA.

#### **SECTION 15: Regulatory information**

## 15.1 safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

### abbreviations and acronyms

abbr.	descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code

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abbr.	descriptions of used abbreviations
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
vPvB	Very Persistent and very Bioaccumulative

### key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### classification procedure

physical and chemical properties: the classification is based on tested mixture.

health hazards, environmental hazards: the method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### disclaimer

this information is based upon the present state of our knowledge. this SDS has been compiled and is solely intended for this product.

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