

RING1B Antibody

version number: GHS 2.0
replaces version of: 2023-08-29 (GHS 1)

revision: 2023-09-05

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

1.1 product identifier

trade name **RING1B Antibody**
product code(s) C15430002

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 acc. to GHS
this mixture does not meet the criteria for classification.

2.2 label elements

labelling
not required

2.3 other hazards

results of PBT and vPvB assessment
does not contain a PBT-/vPvB-substance in a concentration of \geq 0,1%.
endocrine disrupting properties
does not contain an endocrine disruptor (EDC) in a concentration of \geq 0,1%.

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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 (NO_x)

5.3 advice for firefighters

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

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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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SECTION 8: Exposure controls/personal protection

8.1 control parameters

occupational exposure limit values (Workplace Exposure Limits)
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

| | |
|--|-----------------|
| 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 | non-combustible |
| lower and upper explosion limit | not determined |
| flash point | not determined |
| auto-ignition temperature | not determined |
| decomposition temperature | not relevant |

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| | |
|---------------------|----------------|
| pH (value) | not determined |
| kinematic viscosity | not determined |
| solubility(ies) | not determined |

partition coefficient

| | |
|---|-----------------------------------|
| partition coefficient n-octanol/water (log value) | this information is not available |
|---|-----------------------------------|

| | |
|-----------------|----------------|
| vapour pressure | not determined |
|-----------------|----------------|

density and/or relative density

| | |
|-------------------------|---|
| density | not determined |
| relative vapour density | information on this property is not available |

| | |
|--------------------------|-----------------------|
| particle characteristics | not relevant (liquid) |
|--------------------------|-----------------------|

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

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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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 acc. to GHS

this mixture does not meet the criteria for classification.

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.

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12.5 results of PBT and vPvB assessment

according to the results of its assessment, this substance is not a PBT or a vPvB. does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$.

12.6 endocrine disrupting properties

does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0,1\%$.

12.7 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 or ID 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 |
| 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 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

International Maritime Dangerous Goods Code (IMDG) - additional information

not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

not subject to ICAO-IATA.

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SECTION 15: Regulatory information

15.1 safety, health and environmental regulations/legislation specific for the substance or mixture national regulations (GB)

list of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed

restrictions according to GB REACH, Annex 17

none of the ingredients are listed

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-relevant |
|---------|--|--|-----------------|
| 2.1 | classification acc. to GHS | classification acc. to GHS: this mixture does not meet the criteria for classification. | yes |
| 2.1 | | classification acc. to GHS: change in the listing (table) | yes |
| 2.2 | labelling | labelling: not required | yes |
| 2.2 | - signal word: warning | | yes |
| 2.2 | - pictograms | | yes |
| 2.2 | | - pictograms: change in the listing (table) | yes |
| 2.2 | | - hazard statements: change in the listing (table) | yes |
| 2.2 | | - precautionary statements: change in the listing (table) | yes |
| 2.2 | | - supplemental hazard information: change in the listing (table) | yes |
| 2.2 | - hazardous ingredients for labelling: sodium azide | | yes |
| 3.2 | | mixtures: change in the listing (table) | yes |
| 3.2 | | mixtures: change in the listing (table) | yes |
| 8.1 | control parameters | control parameters: occupational exposure limit values (Workplace Exposure Limits) this information is not available | yes |
| 8.1 | | occupational exposure limit values (Workplace Exposure Limits): change in the listing (table) | yes |

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| section | former entry (text/value) | actual entry (text/value) | safety-relevant |
|---------|--|---|-----------------|
| 8.1 | | relevant DNELs of components of the mixture: change in the listing (table) | yes |
| 8.1 | | relevant PNECs of components of the mixture: change in the listing (table) | yes |
| 10.2 | chemical stability: see below "Conditions to avoid". | chemical stability: the material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. | yes |
| 11.1 | classification acc. to GHS | classification acc. to GHS: this mixture does not meet the criteria for classification. | yes |
| 11.1 | acute toxicity: harmful if swallowed.GHS of the United Nations, annex 4: may be harmful in contact with skin. | acute toxicity: shall not be classified as acutely toxic. | yes |
| 11.1 | | - acute toxicity estimate (ATE): change in the listing (table) | yes |
| 11.1 | | acute toxicity estimate (ATE) of components of the mixture: change in the listing (table) | yes |
| 16 | | abbreviations and acronyms: change in the listing (table) | yes |
| 16 | list of relevant phrases (code and full text as stated in section 2 and 3) | | yes |
| 16 | | list of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table) | yes |

abbreviations and acronyms

| abbr. | descriptions of used abbreviations |
|----------|---|
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road) |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| GB REACH | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended) |
| 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 |
| 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 |

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key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). 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.