SECTION 1: Identification

1.1 product identifier

- trade name: H3K27me3 polyclonal antibody
- product code(s): C15410195

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

<table>
<thead>
<tr>
<th>poison center</th>
<th>country</th>
<th>name</th>
<th>telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Association of</td>
<td>United States</td>
<td>Poison Control Centers</td>
<td>1-800-222-1222</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 2: Hazard(s) identification

2.1 classification of the substance or mixture


<table>
<thead>
<tr>
<th>section</th>
<th>hazard class</th>
<th>category</th>
<th>hazard class and category</th>
<th>hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.45</td>
<td>skin sensitization</td>
<td>1</td>
<td>Skin Sens. 1</td>
<td>H317</td>
</tr>
</tbody>
</table>

for full text of abbreviations: see SECTION 16.

2.2 label elements


- signal word: warning
- pictograms: GHS07
- hazard statements:
  - H317: may cause an allergic skin reaction.
- precautionary statements

P261 avoid breathing dust/fume/gas/mist/vapors/spray.
P272 contaminated work clothing must not be allowed out of the workplace.
P280 wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 if on skin: Wash with plenty of water.
P321 specific treatment [see on this label].
P333+P313 if skin irritation or rash occurs: Get medical advice/attention.
P363 wash contaminated clothing before reuse.
P501 dispose of contents/container to industrial combustion plant.

2.3 other hazards

hazards not otherwise classified

harmful to aquatic life (GHS category 3: aquatic toxicity - acute).

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

<table>
<thead>
<tr>
<th>name of substance</th>
<th>identifier</th>
<th>wt%</th>
<th>classification acc. to GHS</th>
<th>pictograms</th>
</tr>
</thead>
<tbody>
<tr>
<td>proclin 300</td>
<td>CAS No 55965-84-9</td>
<td>0.05</td>
<td>Acute Tox. 4 / H302 Acute Tox. 3 / H311 Acute Tox. 4 / H332 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Skin Sens. 1 / H317</td>
<td></td>
</tr>
</tbody>
</table>

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: Fire-fighting 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. coordinate 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 vapors/dust/aerosols/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 the 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.

<table>
<thead>
<tr>
<th>name of substance</th>
<th>CAS No</th>
<th>endpoint</th>
<th>threshold level</th>
<th>protection goal, route of exposure</th>
<th>used in</th>
<th>exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>proclin 300</td>
<td>55965-84-9</td>
<td>DNEL</td>
<td>0.02 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>chronic - local effects</td>
</tr>
<tr>
<td>proclin 300</td>
<td>55965-84-9</td>
<td>DNEL</td>
<td>0.04 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>acute - local effects</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>physical state</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>color</td>
<td>colorless</td>
</tr>
<tr>
<td>odor</td>
<td>odorless</td>
</tr>
</tbody>
</table>

other safety parameters

<table>
<thead>
<tr>
<th>pH (value)</th>
<th>not determined</th>
</tr>
</thead>
<tbody>
<tr>
<td>melting point/freezing point</td>
<td>not determined</td>
</tr>
<tr>
<td>initial boiling point and boiling range</td>
<td>not determined</td>
</tr>
<tr>
<td>flash point</td>
<td>not determined</td>
</tr>
<tr>
<td>evaporation rate</td>
<td>not determined</td>
</tr>
<tr>
<td>flammability (solid, gas)</td>
<td>not relevant, (fluid)</td>
</tr>
<tr>
<td>explosive limits</td>
<td>not determined</td>
</tr>
<tr>
<td>vapor pressure</td>
<td>not determined</td>
</tr>
<tr>
<td>density</td>
<td>not determined</td>
</tr>
</tbody>
</table>
Section 1: Identification

1.1 Product identifier
H3K27me3 polyclonal antibody

1.2 Supplier identification

1.3 Recommended use

1.4 Restricted use

Section 2: Hazard(s)

2.1 Physical dangers

2.2 Health dangers

2.3 Environmental dangers

Section 3: Substances/Ingredients

3.1 Substance/ingredient identification

3.2 Other information

Section 4: Prepared substance

4.1 Substance identification

4.2 Other information

Section 5: Hazard classification and labeling

5.1 Classification

5.2 Labeling

Section 6: Stability and Reactivity

6.1 Reactivity

6.2 Chemical Stability

6.3 Possibility of hazardous reactions

6.4 Conditions to avoid

6.5 Incompatible materials

6.6 Hazardous decomposition products

Section 7: Handling and Storage

7.1 Storage

7.2 Transport

7.3 Disposal

Section 8: Exposition control and personal protection

8.1 Personal protective equipment

8.2 Other information

Section 9: Physical and Chemical Properties

9.1 Physical properties

9.2 Chemical properties

9.3 Other 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 (additively formula).

acutely toxic 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 sensitization
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
harmful to aquatic life.

<table>
<thead>
<tr>
<th>name of substance</th>
<th>CAS No</th>
<th>endpoint</th>
<th>value</th>
<th>species</th>
<th>exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>proclin 300</td>
<td>55965-84-9</td>
<td>LC50</td>
<td>0.19 mg/l</td>
<td>fish</td>
<td>96 h</td>
</tr>
<tr>
<td>proclin 300</td>
<td>55965-84-9</td>
<td>EC50</td>
<td>0.16 mg/l</td>
<td>aquatic invertebrates</td>
<td>48 h</td>
</tr>
<tr>
<td>proclin 300</td>
<td>55965-84-9</td>
<td>ErC50</td>
<td>19.9 µg/l</td>
<td>algae</td>
<td>72 h</td>
</tr>
</tbody>
</table>

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/packages
 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 assigned

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.

Information for each of the UN Model Regulations
transport of dangerous goods by road or rail (49 CFR US DOT)
 not subject to transport regulations.

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 specific for the product in question

national regulations (United States)

VOC content
 Regulated Volatile Organic Compounds [VOC-EPA]: Regulated Volatile Organic Compounds [VOC-Cal ARB]:

industry or sector specific available guidance(s)

NPCA-HMIS® III
H3K27me3 polyclonal antibody

NFPA® 704


<table>
<thead>
<tr>
<th>category</th>
<th>degree of hazard</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>0</td>
<td>material that will not burn under typical fire conditions</td>
</tr>
<tr>
<td>Health</td>
<td>2</td>
<td>material that, under emergency conditions, can cause temporary incapacitation or residual injury</td>
</tr>
<tr>
<td>Instability</td>
<td>0</td>
<td>material that is normally stable, even under fire conditions</td>
</tr>
<tr>
<td>Special hazard</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

15.2 Chemical Safety Assessment

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

SECTION 16: Other information, including date of preparation or last revision

abbreviations and acronyms

<table>
<thead>
<tr>
<th>abbr.</th>
<th>descriptions of used abbreviations</th>
</tr>
</thead>
<tbody>
<tr>
<td>49 CFR US DOT</td>
<td>49 CFR U.S. Department of Transportation</td>
</tr>
<tr>
<td>Acute Tox.</td>
<td>Acute toxicity</td>
</tr>
<tr>
<td>Cal ARB</td>
<td>California Air Resources Board</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service [service that maintains the most comprehensive list of chemical substances]</td>
</tr>
<tr>
<td>DGR</td>
<td>Dangerous Goods Regulations [see IATA/DGR]</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No-Effect Level</td>
</tr>
<tr>
<td>EC50</td>
<td>Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response [e.g. on growth] during a specified time interval</td>
</tr>
<tr>
<td>EPA</td>
<td>Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment</td>
</tr>
<tr>
<td>ErC50</td>
<td>( \equiv ) EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth ( \text{Ebc50} ) or growth rate ( \text{ErC50} ) relative to the control</td>
</tr>
<tr>
<td>Eye Dam.</td>
<td>Seriously damaging to the eye</td>
</tr>
<tr>
<td>Eye Irrit.</td>
<td>Irritant to the eye</td>
</tr>
<tr>
<td>GHS</td>
<td>“Globally Harmonized System of Classification and Labelling of Chemicals” developed by the United Nations</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>IATA/DGR</td>
<td>Dangerous Goods Regulations (DGR) for the air transport (IATA)</td>
</tr>
<tr>
<td>ICAO</td>
<td>International Civil Aviation Organization</td>
</tr>
</tbody>
</table>
H3K27me3 polyclonal antibody

<table>
<thead>
<tr>
<th>abbr.</th>
<th>descriptions of used abbreviations</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods Code</td>
</tr>
<tr>
<td>LC50</td>
<td>Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50% lethality during a specified time interval</td>
</tr>
<tr>
<td>MARPOL</td>
<td>International Convention for the Prevention of Pollution from Ships (abbr. of &quot;Marine Pollutant&quot;)</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration [United States]</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, Bioaccumulative and Toxic</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted No-Effect Concentration</td>
</tr>
<tr>
<td>RTECS</td>
<td>Registry of Toxic Effects of Chemical Substances [database of NIOSH with toxicological information]</td>
</tr>
<tr>
<td>Skin Corr.</td>
<td>Corrosive to skin</td>
</tr>
<tr>
<td>Skin Irrit.</td>
<td>Irritant to skin</td>
</tr>
<tr>
<td>Skin Sens.</td>
<td>Skin sensitization</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compounds</td>
</tr>
<tr>
<td>vPvB</td>
<td>Very Persistent and very Bioaccumulative</td>
</tr>
</tbody>
</table>

key literature references and sources for data

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)

<table>
<thead>
<tr>
<th>code</th>
<th>text</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin.</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled.</td>
</tr>
</tbody>
</table>

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