# 5-hydroxymethylcytosine (5-hmC) Antibody (rabbit)

version number: GHS 2.0
replaces version of: 2020-06-22 (GHS 1)

revision: 2023-04-07

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

### 1.1 product identifier

trade name: **5-hydroxymethylcytosine (5-hmC) Antibody (rabbit)**

product code(s): C15410205

### 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

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

| section | hazard class | category | hazard class and category | hazard statement |
|---|---|---|---|---|
| 3.4S | skin sensitisation | 1 | Skin Sens. 1 | H317 |
| 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

- signal word: warning
- pictograms

GHS07, GHS09

- hazard statements

| | |
|---|---|
| H317 | may cause an allergic skin reaction. |
| H411 | toxic to aquatic life with long lasting effects. |

- precautionary statements

| | |
|---|---|
| P261 | avoid breathing dust/fume/gas/mist/vapours/spray. |
| P273 | avoid release to the environment. |
| P280 | wear protective gloves/protective clothing/eye protection/face protection/hearing protection/.... |
| P333+P313 | if skin irritation or rash occurs: Get medical advice/attention. |
| P362+P364 | take off contaminated clothing and wash it before reuse. |
| P391 | collect spillage. |
| P501 | dispose of contents/container to industrial combustion plant. |

- hazardous ingredients for labelling proclin 300

### 2.3 other hazards

results of PBT and vPvB assessment

does not contain a PBT-/vPvB-substance in a concentration of ↗ 0,1%.

endocrine disrupting properties

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

## 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.

| name of substance | identifier | wt% | classification acc. to GHS | pictograms |
|---|---|---|---|---|
| proclin 300 | CAS No<br>55965-84-9<br><br>index No<br>613-167-00-5 | 0.05 | Acute Tox. 3 / H301<br>Acute Tox. 2 / H310<br>Acute Tox. 2 / H330<br>Skin Corr. 1C / H314<br>Eye Dam. 1 / H318<br>Skin Sens. 1A / H317<br>Aquatic Acute 1 / H400<br>Aquatic Chronic 1 / H410<br>EUH071 |  |

| name of substance | Specific Conc. Limits | M-Factors | ATE | exposure route |
|---|---|---|---|---|
| proclin 300 | Skin Corr. 1C; H314: C ↗ 0.6 %<br>Skin Irrit. 2; H315: 0.06 % ↖ C ← 0.6 %<br>Eye Dam. 1; H318: C ↗ 0.6 %<br>Eye Irrit. 2; H319: 0.06 % ↖ C ← 0.6 %<br>Skin Sens. 1A; H317: C ↗ 0.0015 % | M-factor (acute) = 100<br>M-factor (chronic) = 100 | 100 $^{mg}/_{kg}$<br>50 $^{mg}/_{kg}$<br>0.5 $^{mg}/_{l}$/4h<br>0.05 $^{mg}/_{l}$/4h | oral<br>dermal<br>inhalation: vapour<br>inhalation: dust/mist |

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)

### 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.

## 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.

## 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

occupational exposure limit values (Workplace Exposure Limits)
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/m³ | human, inhalatory | worker (industry) | chronic - local effects |
| proclin 300 | 55965-84-9 | DNEL | 0.04 mg/m³ | human, inhalatory | 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 |
|---|---|---|---|---|---|---|
| proclin 300 | 55965-84-9 | PNEC | 3.39 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| proclin 300 | 55965-84-9 | PNEC | 3.39 µg/l | aquatic organisms | marine water | short-term (single instance) |
| proclin 300 | 55965-84-9 | PNEC | 0.23 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| proclin 300 | 55965-84-9 | PNEC | 0.027 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| proclin 300 | 55965-84-9 | PNEC | 0.027 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| proclin 300 | 55965-84-9 | PNEC | 0.01 mg/kg | 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.

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 |
| 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

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 acc. to GHS

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

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.

### 11.2 information on other hazards

there is no additional information.

## SECTION 12: Ecological information

### 12.1 toxicity

toxic to aquatic life with long lasting effects.

aquatic toxicity (chronic) of components of the mixture

| name of substance | CAS No | endpoint | value | species | exposure time |
|---|---|---|---|---|---|
| proclin 300 | 55965-84-9 | LC50 | 0.07 $^{mg}/_{l}$ | fish | 14 d |
| proclin 300 | 55965-84-9 | EC50 | →0.18 $^{mg}/_{l}$ | aquatic invertebrates | 21 d |
| proclin 300 | 55965-84-9 | ErC50 | 45.6 $^{µg}/_{l}$ | algae | 120 h |

### 12.2 persistence and degradability

degradability of components of the mixture

| name of substance | CAS No | process | degradation rate | time | method | source |
|---|---|---|---|---|---|---|
| proclin 300 | 55965-84-9 | carbon dioxide generation | 38.8 % | 29 d | | ECHA |

### 12.3 bioaccumulative potential

data are not available.

bioaccumulative potential of components of the mixture

| name of substance | CAS No | BCF | log KOW | BOD5/COD |
|---|---|---|---|---|
| proclin 300 | 55965-84-9 | 54 | ↗-0.34 – ↖0.63 (pH value: 7, 10 °C) | |

### 12.4 mobility in soil

data are not available.

### 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 ↗ 0,1%.

### 12.6 endocrine disrupting properties

does not contain an endocrine disruptor (EDC) in a concentration of ↗ 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

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 or ID number

| | |
|---|---|
| ADR/RID | UN 3082 |
| IMDG-Code | UN 3082 |
| ICAO-TI | UN 3082 |

### 14.2 UN proper shipping name

| | |
|---|---|
| ADR/RID | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| IMDG-Code | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| ICAO-TI | Environmentally hazardous substance, liquid, n.o.s. |
| technical name (hazardous ingredients) | sodium azide, proclin 300 |

### 14.3 transport hazard class(es)

| | |
|---|---|
| ADR/RID | 9 |
| IMDG-Code | 9 |
| ICAO-TI | 9 |

### 14.4 packing group

| | |
|---|---|
| ADR/RID | III |
| IMDG-Code | III |
| ICAO-TI | III |

### 14.5 environmental hazards

hazardous to the aquatic environment

| | |
|---|---|
| environmentally hazardous substance (aquatic environment) | sodium azide, proclin 300 |

### 14.6 special precautions for user

provisions for dangerous goods (ADR) should be complied within the premises.

### 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

### Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - additional information

| | |
|---|---|
| classification code | M6 |
| 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) | E1 |
| limited quantities (LQ) | 5 L |
| transport category (TC) | 3 |
| tunnel restriction code (TRC) | - |
| hazard identification No | 90 |
| Emergency Action Code | 3Z |

### Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - additional information

| | |
|---|---|
| classification code | M6 |
| danger label(s) | 9, fish and tree |

| | |
|---|---|
| environmental hazards | yes (hazardous to water) |
| special provisions (SP) | 274, 335, 375, 601 |
| excepted quantities (EQ) | E1 |
| limited quantities (LQ) | 5 L |
| transport category (TC) | 3 |
| hazard identification No | 90 |

### International Maritime Dangerous Goods Code (IMDG) - additional information

| | |
|---|---|
| marine pollutant | yes (hazardous to the aquatic environment) (sodium azide) |
| 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 |

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

| | |
|---|---|
| environmental hazards | yes (hazardous to the aquatic environment) |
| danger label(s) | 9, fish and tree |

| | |
|---|---|
| special provisions (SP) | A97, A158, A197, A215 |
| 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

### 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

dangerous substances with restrictions (GB REACH, Annex 17)

| name of substance | name acc. to inventory | CAS No | No |
|---|---|---|---|
| 5-hydroxymethylcytosine (5-hmC) Antibody (rabbit) | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | | 3 |

### 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 |
|---|---|---|---|
| 1.1 | trade name:<br>5-hmC polyclonal antibody (rabbit) | trade name:<br>5-hydroxymethylcytosine (5-hmC) Antibody (rabbit) | yes |
| 1.1 | registration number (REACH):<br>not relevant (mixture) | | yes |
| 2.1 | | classification acc. to GHS:<br>change in the listing (table) | yes |
| 2.1 | | the most important adverse physicochemical, human health and environmental effects:<br>spillage and fire water can cause pollution of watercourses. | yes |
| 2.2 | | - pictograms:<br>change in the listing (table) | yes |
| 2.2 | | - hazard statements:<br>change in the listing (table) | yes |
| 2.2 | | - precautionary statements:<br>change in the listing (table) | yes |

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| section | former entry (text/value) | actual entry (text/value) | safety-relevant |
|---|---|---|---|
| 2.3 | results of PBT and vPvB assessment:<br>this mixture does not contain any substances that are assessed to be a PBT or a vPvB. | results of PBT and vPvB assessment:<br>does not contain a PBT-/vPvB-substance in a concentration of ↗ 0,1%. | yes |
| 2.3 | | endocrine disrupting properties:<br>does not contain an endocrine disruptor (EDC) in a concentration of ↗ 0,1%. | yes |
| 3.2 | | mixtures:<br>change in the listing (table) | yes |
| 3.2 | | mixtures:<br>change in the listing (table) | yes |
| 5.3 | advice for firefighters:<br>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 fire-fighting water separately. fight fire with normal precautions from a reasonable distance. | advice for firefighters:<br>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. | yes |
| 6.2 | environmental precautions:<br>keep away from drains, surface and ground water. retain contaminated washing water and dispose of it. | environmental precautions:<br>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. | yes |
| 7.2 | | - packaging compatibilities:<br>only packagings which are approved (e.g. acc. to ADR) may be used. | yes |
| 8.1 | control parameters:<br>this information is not available. | control parameters:<br>occupational exposure limit values (Workplace Exposure Limits)<br>this information is not available | yes |
| 9.1 | appearance | | yes |
| 9.1 | other safety parameters | | yes |
| 9.1 | flammability (solid, gas):<br>not relevant, (fluid) | flammability:<br>non-combustible | yes |
| 9.1 | evaporation rate:<br>not determined | | yes |
| 9.1 | | decomposition temperature:<br>not relevant | yes |
| 9.1 | | kinematic viscosity:<br>not determined | yes |
| 9.1 | | density and/or relative density | yes |
| 9.1 | vapour density:<br>this information is not available | | yes |
| 9.1 | viscosity:<br>not determined | | yes |
| 9.1 | explosive properties:<br>none | | yes |
| 9.1 | oxidising properties:<br>none | | yes |
| 9.1 | | particle characteristics:<br>not relevant (liquid) | yes |

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| section | former entry (text/value) | actual entry (text/value) | safety-relevant |
|---|---|---|---|
| 9.2 | other information:<br>there is no additional information | other information | yes |
| 9.2 | | information with regard to physical hazard classes:<br>hazard classes acc. to GHS (physical hazards): not relevant | yes |
| 9.2 | | other safety characteristics:<br>there is no additional information | yes |
| 11.2 | | information on other hazards:<br>there is no additional information. | yes |
| 12.1 | toxicity:<br>shall not be classified as hazardous to the aquatic environment. | toxicity:<br>toxic to aquatic life with long lasting effects. | yes |
| 12.1 | | aquatic toxicity (chronic) of components of the mixture:<br>change in the listing (table) | yes |
| 12.2 | persistence and degradability:<br>data are not available. | persistence and degradability | yes |
| 12.2 | | degradability of components of the mixture:<br>change in the listing (table) | yes |
| 12.3 | | bioaccumulative potential of components of the mixture:<br>change in the listing (table) | yes |
| 12.5 | results of PBT and vPvB assessment:<br>data are not available. | results of PBT and vPvB assessment:<br>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 ↗ 0,1%. | yes |
| 12.6 | other adverse effects:<br>data are not available. | endocrine disrupting properties:<br>does not contain an endocrine disruptor (EDC) in a concentration of ↗ 0,1%. | yes |
| 13.1 | waste treatment of containers/packagings:<br>completely emptied packages can be recycled. handle contaminated packages in the same way as the substance itself. | waste treatment of containers/packagings:<br>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. | yes |
| 14.1 | UN number:<br>not subject to transport regulations | UN number or ID number | yes |
| 14.1 | | ADR/RID:<br>UN 3082 | yes |
| 14.1 | | IMDG-Code:<br>UN 3082 | yes |
| 14.1 | | ICAO-TI:<br>UN 3082 | yes |
| 14.2 | UN proper shipping name:<br>not relevant | UN proper shipping name | yes |
| 14.2 | | ADR/RID:<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | yes |
| 14.2 | | IMDG-Code:<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | yes |

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| section | former entry (text/value) | actual entry (text/value) | safety-relevant |
|---|---|---|---|
| 14.2 | | ICAO-TI:<br>Environmentally hazardous substance, liquid, n.o.s. | yes |
| 14.2 | | technical name (hazardous ingredients):<br>sodium azide, proclin 300 | yes |
| 14.3 | transport hazard class(es):<br>not assigned | transport hazard class(es) | yes |
| 14.3 | | ADR/RID:<br>9 | yes |
| 14.3 | | IMDG-Code:<br>9 | yes |
| 14.3 | | ICAO-TI:<br>9 | yes |
| 14.4 | packing group:<br>not assigned | packing group | yes |
| 14.4 | | ADR/RID:<br>III | yes |
| 14.4 | | IMDG-Code:<br>III | yes |
| 14.4 | | ICAO-TI:<br>III | yes |
| 14.5 | environmental hazards:<br>non-environmentally hazardous acc. to the dangerous goods regulations | environmental hazards:<br>hazardous to the aquatic environment | yes |
| 14.5 | | environmentally hazardous substance (aquatic environment):<br>sodium azide, proclin 300 | yes |
| 14.6 | special precautions for user:<br>there is no additional information. | special precautions for user:<br>provisions for dangerous goods (ADR) should be complied within the premises. | yes |
| 14.7 | transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN):<br>not subject to ADR. not subject to RID. | Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - additional information | yes |
| 14.7 | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN) | | yes |
| 14.7 | identifier number:<br>9006 | | yes |
| 14.7 | proper shipping name:<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | | yes |
| 14.7 | class:<br>9 | | yes |
| 14.7 | number of cones/blue lights:<br>0 | | yes |
| 14.7 | | classification code:<br>M6 | yes |
| 14.7 | | danger label(s):<br>9, fish and tree | yes |

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| section | former entry (text/value) | actual entry (text/value) | safety-relevant |
|---|---|---|---|
| 14.7 | | danger label(s):<br>change in the listing (table) | yes |
| 14.7 | | environmental hazards:<br>yes (hazardous to the aquatic environment) | yes |
| 14.7 | | special provisions (SP):<br>274, 335, 375, 601 | yes |
| 14.7 | | excepted quantities (EQ):<br>E1 | yes |
| 14.7 | | limited quantities (LQ):<br>5 L | yes |
| 14.7 | | transport category (TC):<br>3 | yes |
| 14.7 | | tunnel restriction code (TRC):<br>- | yes |
| 14.7 | | hazard identification No:<br>90 | yes |
| 14.7 | | Emergency Action Code:<br>3Z | yes |
| 14.7 | | Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - additional information | yes |
| 14.7 | | classification code:<br>M6 | yes |
| 14.7 | | danger label(s):<br>9, fish and tree | yes |
| 14.7 | | danger label(s):<br>change in the listing (table) | yes |
| 14.7 | | environmental hazards:<br>yes (hazardous to water) | yes |
| 14.7 | | special provisions (SP):<br>274, 335, 375, 601 | yes |
| 14.7 | | excepted quantities (EQ):<br>E1 | yes |
| 14.7 | | limited quantities (LQ):<br>5 L | yes |
| 14.7 | | transport category (TC):<br>3 | yes |
| 14.7 | | hazard identification No:<br>90 | yes |
| 14.7 | International Maritime Dangerous Goods Code (IMDG):<br>not subject to IMDG. | International Maritime Dangerous Goods Code (IMDG) - additional information | yes |
| 14.7 | | marine pollutant:<br>yes (hazardous to the aquatic environment) (sodium azide) | yes |
| 14.7 | | danger label(s):<br>9, fish and tree | yes |

# 5-hydroxymethylcytosine (5-hmC) Antibody (rabbit)

version number: GHS 2.0
replaces version of: 2020-06-22 (GHS 1)

revision: 2023-04-07

| section | former entry (text/value) | actual entry (text/value) | safety-relevant |
|---|---|---|---|
| 14.7 | | danger label(s):<br>change in the listing (table) | yes |
| 14.7 | | special provisions (SP):<br>274, 335, 969 | yes |
| 14.7 | | excepted quantities (EQ):<br>E1 | yes |
| 14.7 | | limited quantities (LQ):<br>5 L | yes |
| 14.7 | | EmS:<br>F-A, S-F | yes |
| 14.7 | | stowage category:<br>A | yes |
| 14.7 | International Civil Aviation Organization (ICAO-IATA/DGR):<br>not subject to ICAO-IATA. | International Civil Aviation Organization (ICAO-IATA/DGR) - additional information | yes |
| 14.7 | | environmental hazards:<br>yes (hazardous to the aquatic environment) | yes |
| 14.7 | | danger label(s):<br>9, fish and tree | yes |
| 14.7 | | danger label(s):<br>change in the listing (table) | yes |
| 14.7 | | special provisions (SP):<br>A97, A158, A197, A215 | yes |
| 14.7 | | excepted quantities (EQ):<br>E1 | yes |
| 14.7 | | limited quantities (LQ):<br>30 kg | yes |
| 15.1 | | national regulations (GB) | yes |
| 15.1 | | list of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list:<br>none of the ingredients are listed | yes |
| 15.1 | | restrictions according to GB REACH, Annex 17 | yes |
| 15.1 | | dangerous substances with restrictions (GB REACH, Annex 17):<br>change in the listing (table) | yes |
| 16 | | abbreviations and acronyms:<br>change in the listing (table) | yes |
| 16 | key literature references and sources for data:<br>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). | key literature references and sources for data:<br>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). | yes |
| 16 | | list of relevant phrases (code and full text as stated in section 2 and 3):<br>change in the listing (table) | yes |

# 5-hydroxymethylcytosine (5-hmC) Antibody (rabbit)



## abbreviations and acronyms

| abbr. | descriptions of used abbreviations |
|---|---|
| Acute Tox. | Acute toxicity |
| ADR | Accord relatif au transport international des marchandises dangereuses par route (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 |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BOD | Biochemical Oxygen Demand |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| COD | Chemical oxygen demand |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| EC50 | 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 |
| 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 |
| EmS | Emergency Schedule |
| ErC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| 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 |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | 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 |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| log KOW | n-Octanol/water |

| abbr. | descriptions of used abbreviations |
|---|---|
| M-factor | Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present |
| 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

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).

## list of relevant phrases (code and full text as stated in section 2 and 3)

| code | text |
|---|---|
| H301 | Toxic if swallowed. |
| H310 | Fatal in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H330 | Fatal if inhaled. |
| 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. |

## disclaimer

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