

## GR Antibody

version number: GHS 2.0  
replaces version of: 2020-06-11 (GHS 1)

revision: 2022-08-26

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

#### 1.1 product identifier

trade name **GR Antibody**  
product code(s) C15200010

#### 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

of no significance

### 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 as pre-  
servative.

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### 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 (CO<sub>2</sub>)

##### unsuitable extinguishing media

water jet

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

##### hazardous combustion products

nitrogen oxides (NO<sub>x</sub>)

#### 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

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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### 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 |
|-----------------|----------------|

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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.

## 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.

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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.

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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 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.

### 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.

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### 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>GR monoclonal antibody  | trade name:<br>GR Antibody   | yes             |
| 1.1     | registration number (REACH):<br>not relevant (mixture)   |  | yes             |
| 2.1     | classification according to Regulation (EC) No 1272/2008 (CLP):<br>this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC. | classification acc. to GHS:<br>this mixture does not meet the criteria for classification.                         | yes             |
| 2.3     | other hazards  | other hazards:<br>of no significance   | yes             |
| 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.   |  | 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             |
| 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             |
| 11.1    | classification according to GHS (1272/2008/EC, CLP):<br>this mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.            | classification acc. to GHS:<br>this mixture does not meet the criteria for classification.                         | yes             |



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| section | former entry (text/value)   | actual entry (text/value)  | safety-relevant |
|---------|---|--|-----------------|
| 11.2    |   | information on other hazards:<br>there is no additional information.   | yes             |
| 12.6    | other adverse effects:<br>data are not available.   | endocrine disrupting properties:<br>information on this property is not available.   | yes             |
| 14.4    | packing group:<br>not assigned to a packing group   | packing group:<br>not assigned   | yes             |
| 14.7    | transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN):<br>not subject to ADR, RID and ADN.   |  | 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:<br>none of the ingredients are listed  | 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.<br>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             |

### 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.