SECTION 1: Identification

1.1 product identifier
trade name TIP5 Antibody - ChIP Grade
product code(s) C15310090

1.2 relevant identified uses of the substance or mixture and uses advised against
relevant identified uses for research use only, not for use in diagnostic or therapeutic procedures.

1.3 details of the supplier of the safety data sheet
Diagenode SA
LIEGE SCIENCE PARK Rue du Bois Saint-Jean, 3
4102 Seraing
Belgium
telephone: +32 4 364 20 50

1.4 emergency telephone number
emergency information service +32 4 364 20 50
this number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

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

SECTION 2: Hazard(s) identification

2.1 classification of the substance or mixture
this mixture does not meet the criteria for classification.

2.2 label elements
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 a whole antiserum taken from a rabbit grown in SPF conditions. It contains 0.05% sodium azide as preservative.
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.

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

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<tr>
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<td>color</td>
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<td>odor</td>
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</table>

other safety parameters

<table>
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<td>pH (value)</td>
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<tr>
<td>melting point/freezing point</td>
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<tr>
<td>initial boiling point and boiling range</td>
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<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>vapor pressure</td>
<td>not determined</td>
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<tr>
<td>density</td>
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<tr>
<td>vapor density</td>
<td>this information is not available</td>
</tr>
<tr>
<td>relative density</td>
<td>information on this property is not available</td>
</tr>
<tr>
<td>solubility[ies]</td>
<td>not determined</td>
</tr>
</tbody>
</table>

partition coefficient

- n-octanol/water (log KOW) | this information is not available |
<table>
<thead>
<tr>
<th>auto-ignition temperature</th>
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</tr>
</thead>
<tbody>
<tr>
<td>viscosity</td>
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</tr>
<tr>
<td>explosive properties</td>
<td>none</td>
</tr>
<tr>
<td>oxidizing properties</td>
<td>none</td>
</tr>
</tbody>
</table>

9.2 other information

There is no additional information.

SECTION 10: Stability and reactivity

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

10.2 chemical stability
The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 possibility of hazardous reactions
No known hazardous reactions.

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

10.5 incompatible materials
There is no additional information.

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

SECTION 11: Toxicological information

11.1 information on toxicological effects
Test data are not available for the complete mixture.

Classification procedure
The method for classification of the mixture is based on ingredients of the mixture [additivity formula].

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)
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 sensitization
shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity
shall not be classified as germ cell mutagenic.
carcinogenicity
shall not be classified as carcinogenic.

reproductive toxicity
shall not be classified as a reproductive toxicant.

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

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

aspiration hazard
shall not be classified as presenting an aspiration hazard.

**SECTION 12: Ecological information**

12.1 **toxicity**
shall not be classified as hazardous to the aquatic environment.

12.2 **persistence and degradability**
data are not available.

12.3 **bioaccumulative potential**
data are not available.

12.4 **mobility in soil**
data are not available.

12.5 **results of PBT and vPvB assessment**
data are not available.

12.6 **endocrine disrupting properties**
information on this property is not available.

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. before discharge of the waste water into a municipal waste water treatment facility the product normally needs to be neutralized.
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) - additional information
- not subject to transport 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 specific for the product in question

industry or sector specific available guidance(s)

NPCA-HMIS® III

<table>
<thead>
<tr>
<th>category</th>
<th>rating</th>
<th>description</th>
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<tr>
<td>Chronic</td>
<td>/</td>
<td>none</td>
</tr>
<tr>
<td>Health</td>
<td>0</td>
<td>no significant risk to health</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
<td>material that will not burn under typical fire conditions</td>
</tr>
<tr>
<td>Physical hazard</td>
<td>0</td>
<td>material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive</td>
</tr>
<tr>
<td>Personal protection</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

NFPA® 704
### TIP5 Antibody - ChIP Grade

<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>0</td>
<td>material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material</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>
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<tbody>
<tr>
<td>49 CFR US DOT</td>
<td>49 CFR U.S. Department of Transportation</td>
</tr>
<tr>
<td>DGR</td>
<td>Dangerous Goods Regulations [see IATA/DGR]</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>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods Code</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>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).

#### Disclaimer

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