Material safety data sheet

Antibody

1. Identification of the product (substance or mixture) and supplier/company

Product identifiers

- Product: Antibody
- Catalogue no.: Please see section 16 for the exact products for which this MSDS applies.
- Brand: U-CyTech biosciences

Relevant identified uses of the product and uses advised against

Identified uses: Laboratory reagent. To be used in immunological assays.
For R&D use only, not for food, drug, household or other uses.

Details of the supplier of the material safety data sheet

- Supplier: U-CyTech biosciences
  Yalelaan 48
  3584 CM Utrecht
  The Netherlands
  Phone: +31 30 253 5960
  E-mail: info@ucytech.com

2. Hazard identification

Classification of the products in this kit

The product is not classified as hazardous according to Regulation (EC) no. 1272/2008 and its amendments.

Label elements

- Pictogram: none
- Signal word: none
- Hazard statement(s): none
- Precaution statement(s): none
- Other hazards - none
3. Composition/information on ingredients

Product name: Antibody (lyophilized monoclonal antibody or polyclonal antibody)

Ingredients (when reconstituted):

<table>
<thead>
<tr>
<th>Cas no.</th>
<th>EC no.</th>
<th>Index no.</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proteins (antibodies) <em>(the antibody is either unconjugated or labeled with biotin, FLUOS or Cy5; please see product data sheet for details)</em></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>≤ 0.1%</td>
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<tr>
<td>Trehalose, dihydrate ((C_{12}H_{22}O_{11} \cdot 2H_2O))</td>
<td>6138-23-4</td>
<td>202-739-6</td>
<td>-</td>
<td>&lt; 5%</td>
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<tr>
<td>Serum albumin <em>(this ingredient might not be present: please see product data sheet for details)</em></td>
<td>9048-46-8</td>
<td>232-936-2</td>
<td>-</td>
<td>1%</td>
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</table>

4. First aid measures

Description of first aid measures

General advice: Consult physician. Show this MSDS and the product data sheet to the doctor in attendance.

After contact with skin: Wash contaminated area with soap and water. Remove contaminated clothing and shoes. Consult a physician.

After swallowing: If the person is conscious, wash out mouth with water. Consult a physician.

After contact with eyes: Rinse thoroughly with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids. Consult a physician.

After inhalation: Provide fresh air. If breathing becomes difficult, consult a physician.

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Indication of any immediate medical attention and special treatment needed

No data available.

5. Fire-fighting measures

Extinguishing media: Water spray, carbon dioxide, dry chemical powder or alcohol-resistant foam.

Special hazards / risks: No data available.
Advice for fire fighters: Wear self-contained breathing apparatus and protective clothing for fire fighting if necessary.

6. Accidental release measures

Personal precautions: Use personal protective equipment to avoid exposure. Avoid formation of dust and aerosols. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation. Follow general safety rules for laboratories. Evacuate personnel to safe areas in case of an emergency.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Clean-up methods: Pick up and arrange disposal without creating dust. Sweep up and keep in suitable, closed containers for disposal (section 13).

7. Handling and storage

Safe handling: Only for laboratory use. Use personal protective equipment to avoid (prolonged or repeated) exposure. Avoid formation of dust and aerosols. Ensure adequate ventilation. Follow general safety rules for laboratories.

Safe storage: Store at 2-8°C in a dry and well-ventilated place. Keep container tightly closed. Store in the dark when antibody is labeled with FLUOS or Cy5.

8. Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

Appropriate engineering controls and hygiene measures

Facilities storing or utilizing this product should be equipped with an eyewash facility, a safety shower and mechanical exhaust. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Personal protective equipment

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government
Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

The selected safety glasses have to have side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin and body protection

The selected clothing has to be impervious.

9. Physical and chemical properties

Antibody:

Physical state and appearance: solid (lyophilized)  Color: white
Odor: no data available  pH (at 20°C): no data available
Melting/freezing point: no data available  Boiling/condensation point: no data available
Flash point: no data available  Auto ignition temperature: no data available
Flammability limits: no data available  Specific gravity: no data available
Solubility: soluble in water

10. Stability and reactivity

Chemical stability: Stable under recommended storage conditions.
Conditions to avoid: No data available.
Materials to avoid: No data available.
Hazardous reactions/decomposition products: No data available.

11. Toxicological information

Acute toxicity: No data available.
Irritation and corrosion (skin and eyes): No data available.
Sensitization (skin and respiratory): No data available.
Germ cell mutagenicity: No data available.
Carcinogenicity: No data available.
Reproductive toxicity: No data available.
Specific target organ toxicity (single and repeated): No data available.
Aspiration hazard: No data available.
Signs and symptoms of exposure:
To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Potential health effects:
Inhalation: May be harmful if inhaled and may cause respiratory tract irritation.
Skin: May be harmful if absorbed through skin and may cause skin irritation.
Eyes: May cause eye irritation.
Ingestion: May be harmful if swallowed.
Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

Additional information:
Not available.

12. Ecological information
Toxicity: No data available.
Persistence and degradability: No data available.
Bio accumulative potential: No data available.
Mobility in soil: No data available.
Results of PBT and vPvB assessment: No data available.
Other adverse effects: No data available.

13. Disposal considerations
Product: The generation of waste should be avoided or minimized wherever possible.
Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Observe all federal, state and local environmental regulations.
Packaging: Dispose of as unused product.

14. Transport information
This product is not dangerous for road (ARD), rail (RID), inland waterways (ADNR), sea (IMDG) and air (ICAO/IATA) transport. UN number is not available.

15. Regulatory information
The antibody is not classified as dangerous according to EU legislation.
16. Other information

This MSDS applies for the following U-CyTech antibodies

(please find below the catalogue number of the antibody)

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Further information

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