

Yalelaan 42 3584 CM Utrecht The Netherlands +31 85 073 1460 info@ucytech.com www.ucytech.com

# Safety data sheet

# **Antibody**

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

#### 1.1 Product identifiers

Product: Antibody

Catalogue no.: Please see section 16 for the exact products for which this safety data sheet (SDS)

applies.

Brand: **U-CyTech** biosciences

REACH no.: This product is a mixture. A registration number is not available for this substance

> as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later

registration deadline.

# 1.2 Relevant identified uses of the product and uses advised against

Identified uses: Laboratory chemicals. To be used in immunological assays.

For professional (R&D) use only, not for food, drug, household or other uses.

# 1.3 Details of the supplier of the safety data sheet

Supplier: U-CyTech biosciences

> Yalelaan 42 3584 CM Utrecht The Netherlands

Phone: +31 85 073 1460 E-mail: info@ucytech.com

# 1.4 Emergency telephone number

Contact your local emergency number.

# 2. Hazard identification

# 2.1 Classification of the substance or mixture

The product is not a hazardous substance or mixture according to Regulation (EC) no. 1272/2008 and its amendments.

#### 2.2 Label elements

The product is not a hazardous substance or mixture according to Regulation (EC) no. 1272/2008 and its amendments.

# 2.3 Other hazards - none

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# 3. Composition/information on ingredients

#### 3.1 Substances

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

Synonyms:

Ingredients - product is lyophilized, when reconstituted:

Cas no.	EC no.	Index no.	Classification	Concentration			
Protein (antibodies) (the antibody is either unconjugated or labeled with biotin or FLUOS; please							
see product data sheet for details)							
-	-	-	-	< 1% (v/v)			
Trehalose, dihydrate (C₁₂H₂₂O₁₁ • 2H₂O)							
6138-23-4	202-739-6	-	-	< 5% (w/v)			
Phosphate-buffered saline (PBS)							
-	-	-	-	> 90% (v/v)			
Serum albumin (this ingredient may not be present; please see product data sheet for details)							
9048-46-8	232-936-2	-	-	1% (w/v)			

# 4. First aid measures

# 4.1 Description of first aid measures

General advice: Consult physician and show this SDS.

After contact with skin: Remove contaminated clothing and shoes. Wash contaminated area with

water / shower.

After swallowing: If the person is conscious, rinse mouth with plenty of water and make

the person drink water (two glasses at most). Consult a physician if not

feeling well.

After contact with eyes: Rinse continuously with plenty of water for several minutes. Confirm

adequate flushing by separating the eyelids. Remove contact lenses if

present and easy to do - continue rinsing.

After inhalation: Provide fresh air. Not expected to be an inhalation hazard under

anticipated conditions of normal use of this material. Consult a physician

if necessary.

# 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2 and 11.

# 4.3 Indication of any immediate medical attention and special treatment needed

No further data available. Note to physician: treat symptomatically.

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# 5. Fire-fighting measures

# 5.1 Extinguishing media

Suitable extinguishing media: Water spray, foam, carbon dioxide (CO<sub>2</sub>), dry powder.

Unsuitable extinguishing media: No limitations of extinguishing agents are given.

# 5.2 Special hazards arising from substance or mixture

No data available.

# 5.3 Advice for fire fighters

Stay in danger area only with self-contained breathing apparatus and protective clothing.

#### 5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment to avoid exposure (section 8). Follow general safety rules for laboratories. Evacuate personnel to safe areas in case of an emergency.

#### 6.2 Environmental precautions

Do not let product enter surface water, (sub)soil or drains. Prevent further leakage if safe to do so.

# 6.3 Methods and materials for containment and cleaning up

Cover drains. Contain spillage. Take up dry. Dispose of properly (section 13). Clean up affected area. Avoid generation of dust. Observe possible material restrictions (sections 7 and 10).

#### 7. Handling and storage

# 7.1 Precautions for safe handling

Safe handling: For laboratory use only. Ensure adequate ventilation. Handle and open

container with care. Always close container tightly after removal of product.

Hygiene measures: Follow general safety rules for laboratories. Wear personal protective

equipment to avoid (prolonged or repeated) exposure (section 2.2 and 8). Immediately change contaminated clothing. Wash hands before breaks and

after work.

# 7.2 Conditions for safe storage, including any incompatibilities

Safe storage: Store at 2-8°C, in dry and well-ventilated place. Keep container tightly closed.

## 7.3 Specific end use(s)

Use in laboratories.

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#### 8. Exposure controls/personal protection

#### 8.1 Control parameters

This product does not contain substances above concentration limits fixing an occupational exposure limit.

#### 8.2 Exposure controls

# General protective 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. Immediately change contaminated clothing. Keep away from food and beverages.

#### Personal protective equipment

# Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU). Use tightly fitting safety goggles.

## Skin and body protection

Wear appropriate protective gloves and a lab coat to prevent skin exposure.

Protective gloves must satisfy the specifications of Regulation (EU) 2016/425 and the standard EN374 derived from it. Observe the instructions regarding permeability and breakthrough time which are provided by the suppliers of the gloves. Make sure the gloves are suitable for the task regarding chemical compatibility, dexterity, operational conditions and user susceptibility (e.g. sensation effects). Take also the specific local conditions under which the product is used into consideration (e.g. danger of cuts).

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.

This recommendation applies only to the product stated in this SDS and for the designed use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

#### Respiratory protection

Required when aerosols are generated, when workers are facing concentrations above the exposure limits or where risk assessment shows air-purifying respirators are appropriate.

Use respirators and components tested and approved under appropriate government standards such as NIOHS (US) or CEN (EU).

To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly.

# Control of environmental expose

Do not let product enter drains.

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# 9. Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

A. Appearance (at 20 °C): Solid, white (lyophilized). B. Odor: No data available. C. Odor threshold: No data available. D. pH (at 20°C): No data available. E. Melting/freezing point: No data available. F. Initial boiling and boiling range: No data available. G. Flash point: No data available. H. Evaporation rate: No data available. I. Flammability (solid, gas): No data available. J. Upper/lower flammability or explosive limits: No data available. K. Vapor pressure: No data available. L. Vapor density: No data available. M. Relative density: No data available. N. Solubility(ies): Soluble in water. O. Partition coefficient: n-octanol/water: No data available. P. Auto-ignition temperature: No data available. Q. Decomposition temperature: No data available. R. Viscosity: No data available.

# T. Oxidizing properties:9.2 Other information

S. Explosive properties:

No additional information relevant to safe use of the product.

# 10. Stability and reactivity

# 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

# 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

No data available.

No data available.

# 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to recommended conditions of storage, use and temperature.

#### 10.4 Conditions to avoid

No data available.

# 10.5 Incompatible materials

No data available.

# 10.6 Hazardous decomposition products

Does not decompose when used for intended uses (section 1.2).

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# 11. Toxicological information

# 11.1 Information on toxicological effects

# **Product**

No data available. Acute toxicity: Skin corrosion/irritation: No data available. Serous eye damage/irritation: No data available. Respiratory/skin sensitization: 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.

#### 11.2 Additional information

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.

# Ingredients of Antibody (section 3.2):

Antibody and Phosphate-buffered saline:

Acute toxicity: There is no evidence available indicating acute toxicity.

Skin corrosion/irritation: No data available. Serous eye damage/irritation: No data available. Respiratory/skin sensitization: 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.

Trehalose, dihydrate:

Acute toxicity: LD50 oral - rat - male and female - >16,000 mg/kg.

Skin corrosion/irritation: Skin - rabbit: result: no skin irritation. Serous eye damage/irritation: Eyes - rabbit: result: no eye irritation.

Respiratory/skin sensitization: Human - result: negative.

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fibroblast - with and without metabolic activation - result:

negative.

Mammalian bone marrow sister chromatid exchange - mouse -

result: negative.

Carcinogenicity: No data available. Reproductive toxicity: No data available.

Specific target organ toxicity (single and repeated): No data available.

Aspiration hazard: No data available.

Serum albumin (this ingredient may not be present; please see product data sheet for details):

Acute toxicity: No data available. Skin corrosion/irritation: No data available. Serous eye damage/irritation: No data available. Respiratory/skin sensitization: No data available. Germ cell mutagenicity: No data available.

Carcinogenicity: No component of this ingredient is present at levels higher than or

equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

Reproductive toxicity: No data available.

Specific target organ toxicity (single and repeated): No data available.

No data available. Aspiration hazard:

#### 12. Ecological information

**Product** 

No data available. 12.1 Toxicity: No data available. 12.2 Persistence and degradability: 12.3 Bio-accumulative potential: No data available. 12.4 Mobility in soil: No data available. 12.5 Results of PBT and vPvB assessment: No data available. 12.6 Other adverse effects: No data available.

Toxicity ingredient Trehalose, dihydrate:

Static test EC50 - Daphnia magna (water flea) - >100 mg/l - 48h

Static test ErC50 - Desmodesmus sunspicatus (green algae) - 30.41 mg/l - 72h

Biodegradability ingredient Trehalose, dihydrate:

Aerobic - exposure time 28d

Remarks: The 10 day time window criterion is not fulfilled. (anhydrous substance)

# 13. Disposal considerations

#### 13.1 Waste treatment methods

Product: The generation of waste should be avoided or minimized wherever possible.

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national/federal regulations. Do not let product enter drains.

Packaging: Dispose of as unused product.

#### 14. Transport information

14.1 UN number (ADR, RID, ADN, IMDG, IATA): Not applicable. 14.2 UN proper shipping name (ADR, RID, ADN, IMDG, IATA): Not dangerous. 14.3 Transport hazard class(es) (ADR, RID, ADN, IMDG, IATA): Not applicable. 14.4 Packing group (ADR, RID, ADN, IMDG, IATA): Not applicable.

14.5 Environmental hazards: None.

14.6 Special precautions for user: Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable.

# 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Authorizations and/or restrictions on use: None.

German Water hazard class: No data available.

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment has not been carried out.

## 16. Other information

# This SDS applies to the following U-CyTech antibodies

Analyte	Human	Old World Monkey	Mouse	Rat
IFN-α				CT023
IFN-B				CT024
IFN-γ	CT215; CT216		CT312 CT313	СТ032; СТ033
	CT217; CT218	CT101		CT035; CT052
	CT220			CT053; CT054
IL-1B	CT269			
IL-2	CT252	CT112	CT335; CT588	
IL-Z			CT589	
IL-4	CT253	CT103	CT324	CT028; CT029
IL-4				CT058
IL-4 receptor	CT248			
	CT255; CT262	CT405	CT694	
IL-5	CT694	CT105		
IL-6	CT272	CT104	CT593	
IL-9			CT326; CT327	
II 40	CT254; CT256	CT107	CT325	
IL-10	CT267	CT107		
IL-12/23p40	CT257	CT116		

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Analyte	Human	Old World Monkey	Mouse	Rat
IL-12p70	CT222; CT273; CT276			
IL-13	CT227; CT246	CT109; CT120		
IL-17A	CT291			
IL-17F	CT293			
IL-23p19	CT284; CT285			
IL-31	CT686; CT687			
IL-33	СТ279; СТ689			
IP-10	CT692; CT693			
EPO	CT282			
G-CSF	CT278			
GM-CSF	CT266			
Granzyme B	CT268; CT270			
MCP-1	CT690; CT691			
Perforin	CT685			
TNE	CT258; CT260			
TNF-α	CT271			
CD3		CT161; CT162		
CDS		CT163		

**Reason for revision:** Layout change. Update section 16.

# Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland

Waterways

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: Chemical Abstract Service
CD: Cluster of Differentiation
CE: Conformité Européenne

CEN: European Committee for Standardization

CET: Central European Time
EC: European Commission
EC50: Effective concentration, 50%
EC no: European Chemical number

EPO: Erythropoietin

ErC50: Concentration with 50% reduction in growth rate

EU: European Union

G-CSF: Granulocyte Colony Stimulating Factor

GM-CSF: Granulocyte-Macrophage Colony Stimulating Factor

IATA: International Air Transport Association

IBC code: International Code for the Construction and Equipment of Ships carrying Dangerous

Chemicals in bulk

IFN: Interferon
IL: Interleukin

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Yalelaan 42 3584 CM Utrecht The Netherlands +31 85 073 1460 info@ucytech.com www.ucytech.com IMDG: International Maritime Dangerous Goods
IP: Interferon-gamma inducible Protein

LD50: Lethal dose, 50% Marpol: Marine Pollution

MCP: Monocyte Chemoattractant Protein

M-factor: multiplication factor

NIOSH: National Institute for Occupational Safety & Health

No: Number

PBS: Phosphate-buffered saline

PBT: Persistent, bio-accumulative and toxic

R&D: Research & Development

REACH: Registration, Evaluation, Authorization and restriction of Chemicals

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS: Safety data sheet
TNF: Tumor Necrosis Factor

UN: United Nations
US: United States

WGK: German Water Endangerment Class

vPvB: Very persistent and very bio-accumulative

#### Further information

The information provided in this SDS is to the best of our knowledge and present information. The information is described as a guidance for safe handling and is not considered a warranty or quality specification. The information is only applicable to the described products and may not be valid for such products used in combination with any other products, materials or in any process, unless specified in the text. U-CyTech B.V. shall not be held liable for any damage resulting from handling or from contact with the above products.

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