

# Material Safety Data Sheet

MSDS No.: MSDS#EXAB003  
Product Name: His Tag Antibody

First Revision Date: 2024.04.15  
Last Revision Date: 2024.04.15 Version No.:1.0

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

### Identification of the substance or mixture

**Product code** EXAB003  
**Product name** His Tag Antibody

### Relevant identified uses of the substance or mixture and uses advised against

#### **Relevant identified uses**

For research use only. Not for use in diagnostic procedures.

#### **Uses advised against**

Not for consumer use.

### Company/undertaking identification

Exreprotein, LLC.  
2726 Summer Street NE  
Minneapolis, MN 55413  
(800) 215-0202  
www.exreprotein.com

### **Emergency Telephone Number**

(800) 215-0202

## SECTION 2: Hazards identification

### **Australian SDS Statement**

Not classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonised System (GHS)

### GHS Classification

#### **Health hazards**

Not Hazardous

#### **Physical hazards**

Not Hazardous

#### **Environmental hazards**

Not Hazardous

### Label elements

#### **Signal Word**

None

#### **Hazard pictograms**

None

#### **Hazard pictograms names**

None

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## Hazard Statements

Not Applicable

## Precautionary Statements

### Prevention

Not Applicable

### Response

Not Applicable

### Storage

Not Applicable

### Disposal

Not Applicable

## Other hazards

Not Applicable

## SECTION 3: Composition/information on ingredients

Component	CAS No	Common name	EINECS No.	Weight %
Glycerin	56-81-5	-	200-289-5	40-70

We recommend handling all chemicals with caution.

## Mixtures

No components need to be disclosed according to the applicable regulations.

## SECTION 4: First aid measures

### Description of first aid measures

#### Skin contact

Rinse skin with water. Immediate medical attention is not required.

#### Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Ingestion

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

#### Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### Notes to Physician

Treat symptomatically.

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

Not Applicable

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

None .

## SECTION 5: Firefighting measures

### Extinguishing media

### Suitable extinguishing media

Water spray. Carbon dioxide Foam . Dry chemical.

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**Unsuitable extinguishing media**

No information available.

**Special hazards arising from the substance or mixture**

Not known

**Protective equipment and precautions for firefighters**

Standard procedure for chemical fires.

## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment See section 8 for more information

**Environmental precautions**

No special environmental precautions required.

**Methods and material for containment and cleaning up**

Soak up with inert absorbent material.

**Reference to other sections**

See section 8 for more information .

## SECTION 7: Handling and storage

**Precautions for safe handling**

Use personal protective equipment as required. No special handling advices are necessary.

**Conditions for safe storage, including any incompatibilities**

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

**Specific end use(s)**

For research use only. Not for use in diagnostic procedures.

## SECTION 8: Exposure controls/personal protection

**Control parameters**

ChemicalName	Australia STEL	Australia	Australia – Skin Absorbers	Australia - OES - Peak
Glycerin 56-81-5	None	10 mg/m <sup>3</sup>	None	None

Chemical Name	New Zealand – Workplace Exposure Limits	New Zealand TWA	New Zealand STEL	New Zealand Ceiling Limits
Glycerin 56-81-5	None	10 mg/m <sup>3</sup>	None	None

Chemical Name	China OEL (MAC)	China - Skin Absorbers	Hong Kong OEL
Glycerin 56-81-5	None	None	None

Chemical Name	Korea OEL (CEILING)	Korea OEL (TWA)	Korea OEL (STEL)
Glycerin 56-81-5	None	10 mg/m <sup>3</sup>	None

Chemical Name	Korea OEL (Skin Notations)	Korea PEL (STELs)	Korea PEL (TWAs)
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Glycerin 56-81-5	None	None	None
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Chemical Name	Korea OEL (Carcinogens)	Korea OEL ( Germ Cell Mutagenicity)	Korea OEL (Reproductive Toxicity)
Glycerin 56-81-5	None	None	None

Chemical Name	Taiwan OEL - TWA	Taiwan OEL (Skin notations, Carcinogens)	Taiwan OEL (STELs)	Taiwan OEL (Ceilings)
Glycerin 56-81-5	None	None	None	None

Chemical Name	Singapore OEL (PEL)	Singapore OEL (STEL)
Glycerin 56-81-5	10 mg/m3	None

Chemical Name	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerin 56-81-5	None	None

**Engineering Measures**                      Ensure adequate ventilation, especially in confined areas

**Exposure controls**

**Personal Protective Equipment**

- Respiratory protection**                      In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.
- Hand protection**                              Wear suitable gloves Glove material: Compatible chemical-resistant gloves.
- Eye protection**                                Tight sealing safety goggles
- Skin and Body Protection**                      Wear suitable protective clothing
- Hygiene Measures**                              Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls**  
No special environmental precautions required.

**SECTION 9: Physical and chemical properties**

**Information on basic physical and chemical properties**

- Appearance**                                      liquid
- Odour**    No data available
- Odour Threshold**                                No data
- Molecular Weight**                                No data
- pH**     No data available
- Melting point / melting range**                      °C No data    °F No data
- Boiling point / boiling range**                      °C No data    °F No data
- Flash point**                                        °C No data    °F No data
- Autoignition Temperature**                      °C No data    °F No data

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<b>Decomposition temperature</b>	°C No data    °F No data
<b>Evaporation rate</b>	No data
<b>Flammability (solid, gas)</b>	No data available
<b>Upper explosion limit</b>	No data
<b>Lower explosion limit</b>	No data
<b>Vapour Pressure</b>	No data
<b>Vapour density</b>	No data
<b>Relative density</b>	No data
<b>Specific gravity</b>	No data
<b>Solubility</b>	No data available
<b>Partition coefficient</b>	No data available
<b>n-octanol/water Viscosity</b>	No data
<b>Explosive properties</b>	No data
<b>Oxidising properties</b>	No data

**Other information**  
No data available.

## SECTION 10: Stability and reactivity

<b>Reactivity</b>	No data available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous reaction has not been reported.
<b>Conditions to avoid</b>	No information available.
<b>Incompatible materials</b>	No dangerous reaction known under conditions of normal use.
<b>Hazardous decomposition products</b>	No data available.

## SECTION 11: Toxicological information

### Information on toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerin	= 12600 mg/kg (Rat)	No data available	>570mg/m <sup>3</sup> (Rat)

### Principal Routes of Exposure

<b>Acute toxicity</b>	Data are conclusive but insufficient for classification.
<b>Skin corrosion/irritation</b>	Data are conclusive but insufficient for classification
<b>Serious eye damage/irritation</b>	Data are conclusive but insufficient for classification
<b>Respiratory or skin sensitisation</b>	Data are conclusive but insufficient for classification
<b>Specific target organ toxicity (STOT) – single exposure</b>	Data are conclusive but insufficient for classification
<b>Specific target organ toxicity (STOT) – repeated exposure</b>	Data are conclusive but insufficient for classification
<b>Carcinogenicity</b>	Data are conclusive but insufficient for classification
<b>Germ cell mutagenicity</b>	Data are conclusive but insufficient for classification
<b>Reproductive toxicity</b>	Data are conclusive but insufficient for classification
<b>Aspiration hazard</b>	Data are conclusive but insufficient for classification

## SECTION 12: Ecological information

### Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow

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Glycerin	No data available	Daphnia magna EC50>500 mg/L (24 h)	No data available	No data available	logPow-1.76
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**Mobility in soil** No information available.

**Persistence and degradability** No information available.

**Bioaccumulative potential** No information available.

**Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other adverse effects** No information available.

**SECTION 13: Disposal considerations**

**Waste treatment methods**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

**SECTION 14: Transport information**

**IATA / ADR / DOT-US / IMDG**

Not regulated in the meaning of transport regulations

<b>UN number</b>	Not Applicable
<b>UN proper shipping name</b>	Not Applicable
<b>Transport hazard class(es)</b>	Not Applicable
<b>Packing group</b>	Not Applicable

**Environmental hazards**  
Not Applicable

**Special precautions for user**  
Not Applicable

**Transport in bulk according to Annex II of MARPOL and the IBC Code**  
Not Applicable.

**SECTION 15: Regulatory information**

**International Inventories**

Chemical Name	US TSCA	Canada (DSL)	NDSL	PICCS (Philippines)
Glycerin	Listed	Listed	-	Listed

Chemical Name	ENCS (Japan)	IECSC - China Inventory South Korea (KECL) AICS (Australia) of Existing Chemical Substances	South Korea (KECL)	AICS (Australia)
Glycerin	Listed	Listed	Listed	Listed

Chemical Name	NZIoC - New Zealand Inventory of Chemicals	EINECS (European Union)	ELINCS (European List of Notified Chemical Substances)
Glycerin	Listed	Listed	-

**United Nations-Chemical Weapons Convention, CWC**

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Not Applicable.

## Korea

### Occupational Safety and Health Act

Chemical Name	ISHA - Controlled substance - Metal	ISHA - Controlled substance- Organic material	ISHA - Controlled substance- Acids and bases	ISHA - Controlled substance- Gas phase substance
Glycerin	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Chemical Name	ISHA - Prohibition of production, import, transfer or supply of hazardous substances	ISHA - Hazardous substances requiring permission	Special management materials
Glycerin	Not Applicable	Not Applicable	Not Applicable

Chemical Name	Harmful agents subject to work environment monitoring - Organic compounds	Harmful agents subject to work environment monitoring - Metals	Harmful agents subject to work environment monitoring - Acids and alkalis	Harmful agents subject to work environment monitoring - Gas-phase substances	Harmful agents subject to work environment monitoring - Dusts
Glycerin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Chemical Name	Harmful agents subject to workers requiring health examination - Organic compounds	Harmful agents subject to workers requiring health examination - Metals	Harmful agents subject to workers requiring health examination - Acids and alkalis	Harmful agents subject to workers requiring health examination - Gas-phase substances	Harmful agents subject to workers requiring health examination - Dusts
Glycerin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Chemical Name	Korea OEL (CEILING)	Korea OEL (TWA)	Korea OEL (STEL)	Korea OEL (SkinNotations)
Glycerin	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Chemical Name	Korea OEL (Carcinogens)	Korea OEL (Germ Cell Mutagenicity)	Korea OEL (Reproductive Toxicity)	Korea PEL (STELs)	Korea PEL (TWAs)
Glycerin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Chemical Name	ISHA - Harmful or Dangerous Substances Subject to Submission of Process Safety Reports - Storage	ISHA - Harmful or Dangerous Substances Subject to Submission of Process Safety Reports - Manufacturing or Handling
Glycerin	Not Applicable	Not Applicable

### Chemical Control Act

Chemical Name	Toxic substances	Prohibited substances	Restricted substances
Glycerin	Not Applicable	Not Applicable	Not Applicable

Chemical Name	Threshold (%)	Production/Use Quantity Limits	Custody/Storage Quantity Limits
Glycerin	Not Applicable	Not Applicable	Not Applicable

Chemical Name	Pollutant Release and Transfer Registers (PRTR) - Group I	Pollutant Release and Transfer Registers (PRTR) - Group II
Glycerin	Not Applicable	Not Applicable

### Chemical Registration, Evaluation, etc. Act (K-REACH)

Chemical Name	Ministry of Environment – CMR risk	Ministry of Environment - Critically Controlled Substance	Existing substances eligible for registration	Substances Exempted from Registration or Notification -Annex 1	Substances Exempted from Registration or Notification-Annex 2
Glycerin	Not Applicable	Not Applicable	Not Applicable	Index No. 4-d	Not Applicable

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## Hazardous Substance Safety Control Act

Chemical Name	Hazardous Substance Safety Control Act
Glycerin	Not Applicable

## Wastes Control Act

Chemical Name	Wastes Control Act
Glycerin	Not Applicable

## Taiwan

Chemical Name	Toxic Chemical Substances Control Act - Classification and Control Levels	Toxic Chemical Substances Control Act - Threshold Regulated Quantities	Hazard Prevention Standard for Specified Chemical Substances
Glycerin	Not Listed	Not Listed	Not Listed

## China

Chemical Name	China - Catalogue of Occupational Hazard Factors	China - Dangerous Goods List	China - Catalog of Hypertoxic Chemicals	China - List of Dangerous Chemicals for Priority Management
Glycerin	Not Listed	Not Listed	Not Listed	Not Listed

## SECTION 16: Other information

For research use only. Not for use in diagnostic procedures.

### References

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

### Abbreviations and Acronyms

TWA -Time Weighted Average

OELs -Occupational Exposure Limits

STEL -Short Term Exposure Limit

DSL/NDSL -Canadian Domestic Substance List/Non-Domestic Substance List

KECL -Existing and Evaluated Chemical Substances in Korea

ENCS -Existing and New Chemical Substances in Japan

IECSC -Inventory of Existing Chemical Substances in China

PICCS -Philippine Directory of Chemicals and Chemical Substances

AICS -Australian List of Chemical Substances

NZIoC -New Zealand Chemicals Inventory

EINECS/ELINCS -European List of Existing Chemical Substances / European List of Notified Chemical Substances

TSCA -U.S. Toxic Substances Control Challenge Chapter 8(b) Table of Contents

CEPA -Canadian Environmental Protection Act

EPA -Environmental Protection Agency

OSHA -U.S. Department of Labor Occupational Safety and Health Administration

IATA -U.S. Department of Labor Occupational Safety and Health Administration

DOT -Department of Transportation

IMDG -International Sea Freight Dangerous Goods

ACGIH -American Association of Government Industrial Hygiene Professionals

NIOSH -National Institute for Occupational Safety and Health

AIHA -American Industrial Hygiene Association

HMIS -Department of Defense Hazardous Substances Information System

NTP -National Toxicology Program

IARC -International Agency for Research on Cancer



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"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution.

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**End of Safety Data Sheet**