



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 08-May-2023

Revision Number 2.04

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product NameAnti Glutathione S-transferase, Monoclonal AntibodyProduct Code013-21851,017-21854,013-21856

Manufacturer FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan

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**Supplier** FUJIFILM Wako Pure Chemical Corporation

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Emergency telephone number +81-6-6203-3741 / +81-3-3270-8571

**Recommended uses** For research use only

Restrictions on use Seek expert judgment when using for purposes other than those recommended.

### Section 2: HAZARDS IDENTIFICATION

**GHS** classification

Classification of the substance or mixture

Serious eye damage/eye irritation

Category 2B

**Pictograms** 

Signal word Warning

**Hazard statements** 

H320 - Causes eye irritation

### **Precautionary statements-(Prevention)**

· Wash face, hands and any exposed skin thoroughly after handling

#### Precautionary statements-(Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- · If eye irritation persists: Get medical advice/attention

### Precautionary statements-(Storage)

Not applicable

### Precautionary statements-(Disposal)

· Not applicable

**Others** 

Other hazards Not available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Glycerol	50	92.09	2-242	*	56-81-5
Water	=<50	18.02	N/A	N/A	7732-18-5
Anti Glutathione	0.06	N/A	N/A	N/A	N/A-01-2185-6

S-transferase,			
Monoclonal Antibody			
Monocional Antibody			

Note on ISHL No.: \* in the table means announced chemical substances.

Impurities and/or Additives: Not applicable

**Substances Remarks:** The composition considered to be hazardous are listed in the above. The remaining

ingredients are not hazardous substances, or exist at below reportable level.

### **Section 4: FIRST AID MEASURES**

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

#### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

#### **Eve contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

#### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

#### Protection of first-aiders

Use personal protective equipment as required.

### Section 5: FIRE FIGHTING MEASURES

### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

#### Unsuitable extinguishing media

No information available

#### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### Special extinguishing method

No information available

# Special protective actions for

### fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

### Section 6: ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

# **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

#### Methods and materials for contaminent and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

#### Recoverly, neutralization

No information available

#### Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

# **Section 7: HANDLING AND STORAGE**

Handling

#### **Technical measures**

Use with local exhaust ventilation.

#### **Precautions**

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

#### Safety handling precautions

Use personal protective equipment as required.

Storage

Safe storage conditions

Storage conditions Container protected from light, and store tightly closed in freezer (-20°C).

Safe packaging material Polypropylene

Incompatible substances Strong oxidizing agents

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

**Exposure limits** 

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Glycerol	N/A	N/A	TWA 10mg/m 3 (vapor)
56-81-5			

Personal protective equipment

**Respiratory protection** Protective mask

**Hand protection** chemical protective gloves (JIS T 8116) **Eye protection** protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

liquid

no data available

no data available

no data available

no data available

**Form** 

Odor

**Appearance** 

no data available Melting point/freezing point Boiling point, initial boiling point and boiling range no data available **Flammability** no data available no data available **Evaporation rate:** Flammability (solid, gas): no data available Upper/lower flammability or explosive limits no data available Upper: no data available Lower: Flash point no data available Auto-ignition temperature: no data available no data available **Decomposition temperature:** no data available Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** no data available Solubilities No data available n-Octanol/water partition coefficient:(log Pow) no data available no data available Vapour pressure

Specific Gravity / Relative density

Vapour density

**Particle characteristics** 

# **Section 10: STABILITY AND REACTIVITY**

#### Stability

Reactivity no data available
Chemical stability May be altered by light.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Phosphorus oxide

# Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity no data available

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	
Glycerol	12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat)1 h	

Skin irritation/corrosionno data availableSerious eye damage/ irritationno data availableRespiratory or skin sensitizationno data availableReproductive cell mutagenicityno data availableCarcinogenicityno data available

Reproductive toxicityno data availableSTOT-single exposureno data availableSTOT-repeated exposureno data availableAspiration hazardno data available

# **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** No information available

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Glycerol	N/A	LC50:Oncorhynchus mykiss	EC50:Daphnia magna
_		51 - 57 mL/L 96 h	500 mg/L 24 h

Other data no data available

Persistence and degradability Bioaccumulative potential Mobility in soil

Hazard to the ozone layer

Mobility

No information available No information available No information available No information available

# **Section 13: DISPOSAL CONSIDERATIONS**

#### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

# Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

# **Section 14: TRANSPORT INFORMATION**

ADR/RID Not regulated

UN number

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG Not regulated

UN number -

Proper shipping name: UN classfication

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA Not regulated

UN number -

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

Environmentally Hazardous

Substance

Not applicable

# **Section 15: REGULATORY INFORMATION**

**International Inventories** 

EINECS/ELINCS - TSCA -

Japanese regulations

Fire Service Act Not applicable Poisonous and Deleterious Not applicable

**Substances Control Law** 

Industrial Safety and Health Act Not applicable Regulations for the carriage Not applicable

and storage of dangerous

goods in ship

Civil Aeronautics Law Not applicable

Marine Pollution Prevention Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Z

Law

Pollutant Release and Transfer Not applicable

**Register Law** 

(2023.4.1-)

Export Trade Control Order Not applicable

### **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)

http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances
Japan Industrial Safety and Health Association GHS Model SDS

 $\label{eq:continuous} \mbox{Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.}$ 

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

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#### **Disclaimer**

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z7252(2019). \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**