Safety Data Sheet (SDS)

This safety data sheet complies with the requirements of:
JIS Z 7253:2019, Japan

Issuing Date: 2023-11-06

Version: 1

1. Identification

Product name mTOR Antibody

Product No 2972

Details of the supplier of the safety data sheet

Manufacturer
Cell Signaling Technology, Inc.
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Danvers, MA 01923
United States
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Importer
Cell Signaling Technology Japan, K.K.
10F Kasahara Building
1-6-10 Uchikanda
Chiyoda-ku, Tokyo, 101-0047 Japan
Telephone: 03 (3295) 1630

E-mail address regulationjp@cellsignal.com

Recommended use of the chemical and restrictions on use

Identified uses For research use only

2. Hazard(s) identification

GHS - Classification

Not hazardous

Label elements

Signal Word
None

Hazard Statements
Not hazardous

Other hazards
Not applicable

3. Composition/information on ingredients

Chemical nature Mixture

Chemical name	Weight-%	ENCS Number	ISHL No.	CAS No
glycerol	30-60	-	-	56-81-5

4. First-aid measures

If inhaled Move to fresh air.

In case of skin contact Wash skin with soap and water.

In case of eye contact Rinse thoroughly with plenty of water, also under the eyelids.

If swallowed	Clean mouth with water and afterwards drink plenty of water.
Most important symptoms and effects, both acute and delayed	No information available.
Note to physicians	Treat symptomatically.

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	No information available
Special Extinguishing Media	Cool drums with water spray
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

6. Accidental release measures

For non-emergency personnel	Avoid contact with skin, eyes and clothing. Use personal protective equipment. For personal protection see section 8.
Emergency Measures	Use personal protection recommended in Section 8.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

Storage

Technical measures/Storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Engineering controls	Showers Eyewash stations Ventilation systems
Exposure guidelines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits	Not applicable
Environmental exposure controls	No information available

Personal Protective Equipment

Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hand protection	Impervious gloves
Eye/face protection	Safety glasses with side-shields
Skin and body protection	Wear suitable protective clothing

9. Physical and chemical properties

Information on basic physical and chemical properties

Property	Values
Appearance	
Physical state	Liquid
Color	Colorless
Odor	No information available
Melting point/freezing point	No information available
Boiling point or initial boiling point and boiling range	No information available
Flammability	No information available
Upper/lower flammability or explosive limits	
Lower	No information available
Upper	No information available
Flash point	No information available
Autoignition temperature	
Decomposition temperature	No information available
pH	7.5 @ 20 °C
Viscosity	No information available
Solubility	
Relative vapor density	No information available

Other information

Explosive properties	No information available
Oxidizing properties	No information available

10. Stability and reactivity

Reactivity	No information available
Stability	Stable under normal conditions
Possibility of hazardous reactions	None under normal processing
Conditions to Avoid	Extremes of temperature and direct sunlight
Incompatible products	None known based on information supplied
Hazardous Decomposition Products	None known based on information supplied.

11. Toxicological information

Acute Toxicity

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m^3 (Rat) 1 h

Symptoms No information available.

Product Information

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation Avoid breathing vapors or mists.

Skin contact Avoid contact with skin.

Eye contact Avoid contact with eyes.

Skin corrosion/irritation No information available

Serious eye damage/eye irritation No information available

Respiratory or skin sensitization No information available

Germ cell mutagenicity No information available

Carcinogenicity No information available

Specific target organ systemic toxicity (single exposure) No information available.

Specific target organ toxicity (repeated exposure) No information available.

Aspiration Hazard No information available

12. Ecological information

Ecotoxicity The environmental impact of this product has not been fully investigated.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
glycerol	-	LC50 51 - 57 mL/L (Oncorhynchus mykiss) 96 h	EC50 500 mg/L (Daphnia magna) 24 h

Persistence and degradability No information available

Bioaccumulation

Chemical name	Octanol-Water Partition Coefficient
glycerol 56-81-5	-1.76

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

13. Disposal considerations

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. Transport information

IMDG/IMO Not regulated

ADR/RID Not regulated

IATA Not regulated

Japan Not regulated

15. Regulatory information

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

National regulations This product does not contain substances controlled by applicable regulations.

16. Other information

Issuing Date: 2023-11-06

Revision Note The symbol (*) in the margin of this SDS indicates that this line has been revised

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA:	Time weighted average	Ceiling:	Maximum limit value:
*	Skin designation	+	Sensitizers

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Chemicals Agency
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

Disclaimer

This SDS complies with the requirements of JIS Z 7252:2019 and JIS Z 7253:2019 (Japan). The information provided in this Material 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, use, processing, storage, transportation, disposal and release 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.

End of Safety Data Sheet