

Issuing Date: 2023-09-25

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## 1. Identification

**Product name** Cystathionine gamma-Lyase (D4E9J) Rabbit mAb**Product No** 30068**Details of the supplier of the safety data sheet****Manufacturer**Cell Signaling Technology, Inc.  
3 Trask Lane  
Danvers, MA 01923  
United States  
TEL: +1 978 867 2300  
FAX: +1 978 867 2400**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
sodium azide	<0.02	-	-	26628-22-8

## 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.

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<b>If swallowed</b>	Clean mouth with water and afterwards drink plenty of water.
<b>Most important symptoms and effects, both acute and delayed</b>	Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.
<b>Note to physicians</b>	Treat symptomatically.

### 5. Fire-fighting measures

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
<b>Unsuitable Extinguishing Media</b>	No information available
<b>Specific hazards arising from the chemical</b>	No information available
<b>Special Extinguishing Media</b>	No information available
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

### 6. Accidental release measures

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

### 7. Handling and storage

#### Handling

<b>Advice on safe handling</b>	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.
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#### Storage

<b>Technical measures/Storage conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.
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### 8. Exposure controls/personal protection

<b>Engineering controls</b>	Showers Eyewash stations Ventilation systems
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**Exposure guidelines**

Chemical name	Japan Society of Occupational Health	ISHL Working Environmental Evaluation Standards - Administrative Control Levels	ACGIH TLV
sodium azide 26628-22-8	-		Ceiling: 0.29 mg/m <sup>3</sup> Ceiling: 0.11 ppm

**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

<u>Property</u>	<u>Values</u>
<b>Appearance</b>	
Physical state	Liquid
Color	Colorless
<b>Odor</b>	No information available
<b>Melting point/freezing point</b>	No information available
<b>Boiling point or initial boiling point and boiling range</b>	No information available
<b>Flammability</b>	No information available
<b>Upper/lower flammability or explosive limits</b>	
Lower	No information available
Upper	No information available
<b>Flash point</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>pH</b>	7.5 @ 20 °C
<b>Viscosity</b>	No information available
<b>Solubility</b>	
<b>Relative vapor density</b>	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  
Over a period of time, sodium azide may react with copper, lead, brass, or solder in plumbing systems to form an accumulation of the HIGHLY EXPLOSIVE compounds of lead azide & copper azide.

**Incompatible products** Strong oxidizing agents, Strong acids

**Hazardous Decomposition Products** Nitrogen oxides (NO<sub>x</sub>)

## 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 <sup>3</sup> (Rat) 1 h
sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit) = 50 mg/kg (Rat)	-

**Symptoms** Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

### 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
sodium azide	EC50 0.35 mg/L (Pseudokirchneriella subcapitata) 96 h	LC50 0.8 mg/L (Oncorhynchus mykiss) 96 h LC50 5.46 mg/L (Pimephales promelas) 96 h LC50 0.7 mg/L (Lepomis macrochirus) 96 h	LC100 1 mg/L (Orconectes rusticus) 96 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:** 2023-09-25

Revision Date: 2023-09-25

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**