

Safety Data Sheet (SDS) According to the REACH Regulation (EC) No. 1907/2006

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

1.1. Product identifier

Product No 43933

Product name Arginase-1 (E4U1I) Mouse mAb

Contains

 Chemical name
 Index No.
 CAS No

 glycerol (30-60)
 Not Listed
 56-81-5

 sodium azide (<0.02)</td>
 011-004-00-7
 26628-22-8

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses For Research Use Only. Not for Use in Diagnostic Procedures.

1.3. Details of the supplier of the safety data sheet

Importer Manufacturer

Cell Signaling Technology Europe B.V. Cell Signaling Technology, Inc.

Dellaertweg 9b 3 Trask Lane
2316 WZ Leiden Danvers, MA 01923
The Netherlands United States

TEL: +31 (0)71 7200 200 TEL: +1 978 867 2300 FAX: +31 (0)71 891 0019 FAX: +1 978 867 2400

Website www.cellsignal.com E-mail Address info@cellsignal.eu

1.4. Emergency telephone number

CHEMTREC 24 hours a day, 7 days a week, 365 days a year +1 703 527 3887 (INTERNATIONAL) +1 800 424 9300 (NORTH AMERICA)

Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

Signal word

None.

Hazard statement(s)

None.

Precautionary statement(s)

None.

2.3. Other hazards

May produce an allergic reaction.

For the full text of the H-phrases & EUH-phrases mentioned in this Section, see Section 16

SECTION 3: Composition/information on ingredients

Chemical nature Mixture

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
glycerol	56-81-5	30-60	200-289-5	-	no data available
sodium azide	26628-22-8	<0.02	247-852-1	Acute Tox. 2 (H300) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH032)	no data available

For the full text of the H-phrases & EUH-phrases mentioned in this Section, see Section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Use first aid treatment according to the nature of the injury. When symptoms persist or in all

cases of doubt seek medical advice.

Inhalation Move to fresh air.

Skin contact Wash skin with soap and water.

Eye contactRinse thoroughly with plenty of water, also under the eyelids. **Ingestion**Clean mouth with water and afterwards drink plenty of water.

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

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.

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

Notes to physician Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable Extinguishing Media No information available.

5.2. Special hazards arising from the substance or mixture

No information available.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Avoid contact with skin, eyes and clothing. Use personal protective equipment. For personal

protection see section 8.

6.2. 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.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upSoak up with inert absorbent material. Pick up and transfer to properly labeled containers.

6.4. Reference to other sections

See Sections 8 & 13 for additional information.

SECTION 7: Handling and storage

7.1. Precautions for 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.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Use as a laboratory reagent.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical name	European Union	United Kingdom	France	Spain	Germany
glycerol		STEL 30 mg/m ³	TWA 10 mg/m ³	TWA 10 mg/m ³	Ceiling / Peak: 400
		TWA 10 mg/m ³			mg/m³
					TWA: 200 mg/m ³
sodium azide	TWA 0.1 mg/m ³	STEL 0.3 mg/m ³	TWA 0.1 mg/m ³	TWA 0.1 mg/m ³	TWA: 0.2 mg/m ³

	STEL 0.3 mg/m ³ S*	TWA 0.1 mg/m³ Skin	STEL 0.3 mg/m ³ P*	STEL 0.3 mg/m ³ S*	Ceiling / Peak: 0.4 mg/m ³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
glycerol	_	TWA 10 mg/m ³		TWA 20 mg/m ³	
sodium azide	TWA 0.1 mg/m³ STEL 0.3 mg/m³ Pelle*	TWA 0.1 mg/m³ STEL 0.3 mg/m³ Ceiling 0.29 mg/m³ Ceiling 0.11 ppm C(A4) P*	Huid* STEL 0.3 mg/m³ TWA 0.1 mg/m³	TWA 0.1 mg/m³ STEL 0.3 mg/m³ iho*	TWA 0.1 mg/m³ H*
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
glycerol		SS-C** TWA 50 mg/m³ STEL 100 mg/m³	TWA 10 mg/m ³		TWA 10 mg/m ³ STEL 30 mg/m ³
sodium azide	H* STEL 0.3 mg/m³ TWA 0.1 mg/m³	TWA 0.2 mg/m ³ STEL 0.4 mg/m ³	TWA 0.1 mg/m³ STEL 0.3 mg/m³	TWA 0.1 mg/m ³ STEL 0.1 mg/m ³	TWA 0.1 mg/m³ STEL 0.3 mg/m³ Skin

8.2. Exposure controls

Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses with side-shields

Skin protection Wear protective gloves and protective clothing

Hand protection Impervious gloves.

Other Wear suitable protective clothing.

Respiratory protectionWhen workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

Environmental Exposure Controls

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid - Clear Color Colorless

Odor No information available

Remarks • Method **Property** <u>Values</u> @ 20 °C pН 7.5 No information available Melting point/freezing point No information available Boiling point or initial boiling point No information available No information available and boiling range Flash point No information available No information available. **Evaporation rate** No information available No information available **Flammability** No information available No information available Upper/lower flammability or No information available No information available explosive limits Vapor pressure No information available No information available Relative vapor density No information available No information available Density and/or relative density No information available No information available Solubility No information available. No information available Partition coefficient: n-octanol/water No information available No information available

Autoignition temperatureNo information availableNo information availableDecomposition temperatureNo information availableNo information availableViscosityNo information availableNo information availableExplosive propertiesNo information availableNo information availableOxidizing propertiesNo information availableNo information available

9.2. Other information

Softening point
Molecular Weight
Solubility in other solvents
VOC content
Liquid Density
No information available
No information available
No information available
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization Hazardous reactionsHazardous polymerization does not occur.
None under normal processing.

10.4. 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.

10.5. Incompatible materials

Strong oxidizing agents, Strong acids.

10.6. Hazardous decomposition products

Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

This product is for experimental uses only. The product has not been completely analyzed and all of the hazards may not be known. Please use caution while handling this product.

	Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
	glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat) 1 h
ı	sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit) = 50 mg/kg (-
			Rat)	

Information on likely routes of exposure

Inhalation Avoid breathing vapors or mists.

Eye contact Avoid contact with eyes. Skin contact Avoid contact with skin.

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

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling **Symptoms**

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

Skin corrosion/irritation No information available. Serious eye damage/eye irritation

No information available. Sensitization No information available. No information available. **Mutagenic effects** Carcinogenicity No information available.

Reproductive toxicity No information available. STOT - single exposure No information available. STOT - repeated exposure No information available. **Aspiration Hazard** No information available.

11.2. Information on other hazards

No information available.

SECTION 12: Ecological information

12.1. Toxicity

	Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
T	glycerol	-	LC50 51 - 57 mL/L (Oncorhynchus	EC50 500 mg/L (Daphnia magna) 24
L			mykiss) 96 h	h
Γ	sodium azide	EC50 0.35 mg/L	LC50 0.8 mg/L (Oncorhynchus	LC100 1 mg/L (Orconectes rusticus)
1		(Pseudokirchneriella subcapitata) 96	mykiss) 96 h LC50 5.46 mg/L	96 h
1		h	(Pimephales promelas) 96 h LC50	
1			0.7 mg/L (Lepomis macrochirus) 96	
L			h	

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

Bioaccumulation

Chemical name	Octanol-Water Partition Coefficient
glycerol	-1.76

Bioconcentration factor (BCF) No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused

Dispose of in accordance with local regulations.

products
Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Other information

Waste codes should be assigned by the user based on the application for which the product

was used.

SECTION 14: Transport information

IMDG/IMO

UN number	Not regulated		
UN proper shipping name	Not regulated		
Transport hazard class(es)	Not regulated		
Packing group	Not regulated		
Environmental hazards	None		
Special precautions for user	None		
Maritime transport in bulk	Not regulated		
according to IMO instruments			
	UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special precautions for user Maritime transport in bulk		

ADR/RID

UN number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Environmental hazards	None
	UN proper shipping name Transport hazard class(es) Packing group

14.6 Special precautions for user

IATA

14.1	UN number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	None
14.6	Special precautions for user	None

SECTION 15: Regulatory information

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

Candidate List of Substances of Very High Concern for Authorization Information

This product does not contain Substances of Very High Concern (SVHC).

SEVESO Directive Information

This product does not contain substances identified in the SEVESO Directive.

International inventories

TSCA 8(b) Complies
DSL/NDSL Complies
EINECS/ELINCS Complies

ENCS -

IECSC Complies

KECL - PICCS -

AICS Complies

International inventories legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

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

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out

SECTION 16: Other information

Full text of H-Statements referred to under Sections 2 and 3

H300 - Fatal if swallowed

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

EUH032 - Contact with acids liberates very toxic gas

Classification procedure: Expert judgment and weight of evidence determination.

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Disclaimer

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