

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

**Issuing Date**: 2017-07-10 **Revision Date**: 2023-09-26 **Version**: 2

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

### 1.1. Product identifier

Product No 12963

Product name Cytochrome c (6H2.B4) 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 7200 200 FAX: +1 978 867 2300 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 contact Ingestion**Rinse thoroughly with plenty of water, also under the eyelids.
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 up Soak 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 <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	Ceiling / Peak: 400
		TWA 10 mg/m <sup>3</sup>			mg/m³
					TWA: 200 mg/m <sup>3</sup>
sodium azide	TWA 0.1 mg/m <sup>3</sup>	STEL 0.3 mg/m <sup>3</sup>	TWA 0.1 mg/m <sup>3</sup>	TWA 0.1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>

	STEL 0.3 mg/m³ S*	TWA 0.1 mg/m <sup>3</sup> Skin	STEL 0.3 mg/m³	STEL 0.3 mg/m <sup>3</sup> S*	Ceiling / Peak: 0.4 mg/m <sup>3</sup>
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
glycerol		TWA 10 mg/m <sup>3</sup>		TWA 20 mg/m <sup>3</sup>	
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 <sup>3</sup>		TWA 10 mg/m³ STEL 30 mg/m³
sodium azide	H* STEL 0.3 mg/m³ TWA 0.1 mg/m³	TWA 0.2 mg/m <sup>3</sup> STEL 0.4 mg/m <sup>3</sup>	TWA 0.1 mg/m³ STEL 0.3 mg/m³	TWA 0.1 mg/m <sup>3</sup> STEL 0.1 mg/m <sup>3</sup>	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 protection When 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

Property pH	<u>Values</u> 7.5	Remarks • Method @ 20 °C
Melting point/freezing point	No information available	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	r No information available	No information available
Autoignition temperature	No information available	No information available

Decomposition temperatureNo information availableNo information availableViscosityNo information availableNo information availableExplosive propertiesNo information availableNo information availableOxidizing propertiesNo information availableNo information available

9.2. Other information

Softening pointNo information availableMolecular WeightNo information availableSolubility in other solventsNo information availableVOC contentNo information availableLiquid DensityNo 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 reactions**Hazardous 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
sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit) = 50 mg/kg (	-
		Rat )	

## Information on likely routes of exposure

InhalationAvoid breathing vapors or mists.Eye contactAvoid contact with eyes.

## 12963 Cytochrome c (6H2.B4) Mouse mAb

Skin contact Avoid contact with skin.

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

No information available.

**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.

Skin corrosion/irritation Serious eye damage/eye irritation

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

No information available. Reproductive toxicity 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
glycerol	-	LC50 51 - 57 mL/L (Oncorhynchus	EC50 500 mg/L (Daphnia magna) 24
		mykiss) 96 h	h
sodium azide	EC50 0.35 mg/L	LC50 0.8 mg/L (Oncorhynchus	LC100 1 mg/L (Orconectes rusticus)
	(Pseudokirchneriella subcapitata) 96	mykiss) 96 h LC50 5.46 mg/L	96 h
	h	(Pimephales promelas) 96 h LC50	
		0.7 mg/L (Lepomis macrochirus) 96	
		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

products

Dispose of in accordance with local regulations.

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

14.1UN numberNot regulated14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated14.5Environmental hazardsNone14.6Special precautions for userNone14.7Maritime transport in bulkNot regulated

according to IMO instruments

#### ADR/RID

14.1 UN number Not regulated
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group Not regulated
14.5 Environmental hazards
14.6 Special precautions for user

IATA

14.1UN numberNot regulated14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated14.5Environmental hazardsNone14.6Special precautions for userNone

# **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

Complies TSCA 8(b) 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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