

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 12949

Product name Color-coded Prestained Protein Marker, High Range (43-315 kDa)

Reach registration number

This substance/mixture contains only ingredients which have been registered, or are

exempt from registration, according to Regulation (EC) No. 1907/2006.

Contains

 Chemical Name
 Index No.
 CAS No

 glycerol (25-35)
 Not Listed
 56-81-5

 sodium dodecyl sulphate (1-3)
 Not Listed
 151-21-3

 sodium azide (<0.01)</td>
 011-004-00-7
 26628-22-8

Substance/mixture Preparation

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

**Identified uses** For research use only

## 1.3. Details of the supplier of the safety data sheet

Importer (Applicable in EU only)

Manufacturer

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

 Schuttersveld 2
 3 Trask Lane

 2316 ZA 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

Serious eye damage/eye irritation Category 2 - (H319)

### 2.2. Label elements



Signal word Warning

#### Hazard statement(s)

H319 - Causes serious eye irritation

### Precautionary statement(s)

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

#### 2.3. Other hazards

0 % of the mixture consists of ingredient(s) of unknown acute toxicity.

Toxic to aquatic life.

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

# **SECTION 3: Composition/information on ingredients**

Chemical Name	CAS No	Weight %	EC No	Classification (1272/2008)	REACH Registration Number
glycerol	56-81-5	25-35	200-289-5	-	no data available
sodium dodecyl sulphate	151-21-3	1-3	205-788-1	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Acute Tox. 4 (H302) Acute Tox. 3 (H311)	no data available
sodium azide	26628-22-8	<0.01	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. Consult a physician. If not breathing, give artificial respiration.

Skin contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes.

**Eye contact Ingestion**Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce

vomiting. Never give anything by mouth to an unconscious person.

**Protection of first-aiders**Use personal protective equipment.

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

Eye irritation.

### 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

surrounding environment.

**Unsuitable Extinguishing Media** No information available.

## 5.2. Special hazards arising from the substance or mixture

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

#### 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 For emergency responders

Evacuate personnel to safe areas. Ensure adequate ventilation.

Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

### 6.3. Methods and material for containment and cleaning up

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

Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. 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

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Prevent the formation of vapors, mists and aerosols. Do not eat, drink or smoke when using this product. Do not eat, drink or smoke when using this product.

## 7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

### 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>	TWA 10 mg/m <sup>3</sup>	Ceiling / Peak: 400 mg/m³ TWA: 200 mg/m³
sodium azide	TWA 0.1 mg/m³ STEL 0.3 mg/m³ S*	STEL 0.3 mg/m³ TWA 0.1 mg/m³ Skin	TWA 0.1 mg/m³ STEL 0.3 mg/m³ P*	TWA 0.1 mg/m³ STEL 0.3 mg/m³ S*	TWA: 0.2 mg/m <sup>3</sup> 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/m³ STEL 0.4 mg/m³	TWA 0.1 mg/m³ STEL 0.3 mg/m³	TWA 0.1 mg/m³ STEL 0.1 mg/m³	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

Hand protection Impervious gloves.

Other Wear suitable protective clothing.

**Respiratory protection** In case of inadequate ventilation wear respiratory protection.

### **Environmental Exposure Controls**

Do not allow material to contaminate ground water system.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state Liquid

Appearance No information available

**Color** Purple

Odor No information available Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

**H** 7.5

Melting point/freezing point

Initial boiling point and boiling

No information available

No information available

Initial boiling point ar range

Flash point

Evaporation rate

Flammability (solid, gas)

Upper flammability limit

Lower flammability limit

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

### 12949 Color-coded Prestained Protein Marker, High Range (43-315 kDa)

Vapor pressure No information available Vapor density No information available Relative density No information available Solubility Partly soluble No information available Partition coefficient: n-octanol/water No information available **Autoignition temperature** No information available **Decomposition temperature** No information available. **Viscosity** No information available **Explosive properties** No information available **Oxidizing properties** No information available

9.2. Other information

Softening point
Molecular Weight
Solubility in other solvents
VOC content
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 polymerization does not occur.

**Hazardous reactions**None under normal processing.

# 10.4. Conditions to avoid

None known based on information supplied.

# 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

None under normal use conditions.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Classification based on data available for ingredients: Causes eye irritation, OECD Test No. 405: Acute Eye Irritation/Corrosion.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat) 1 h
sodium dodecyl sulphate	= 1288 mg/kg (Rat) = 1783 mg/kg (Rat)	= 200 mg/kg ( Rabbit )	> 3900 mg/m³(Rat)1 h
sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit) = 50 mg/kg (	-
		Rat )	

**Unknown Acute Toxicity** 0 % of the mixture consists of ingredient(s) of unknown acute toxicity.

mg/kg

ATEmix (dermal) 10,000.00 mg/kg ATEmix (inhalation-dust/mist) 48.80 mg/l

## Information on likely routes of exposure

InhalationThere is no data available for this product.Eye contactAvoid contact with eyes. Irritating to eyes.Skin contactThere is no data available for this product.IngestionThere is no data available for this product.

**Symptoms** Eye irritation.

Skin corrosion/irritation No information available. Serious eye damage/eye irritation No information available. Sensitization No information available. **Mutagenic effects** No information available. Carcinogenic effects No information available. No information available. Reproductive toxicity STOT - single exposure No information available. No information available. STOT - repeated exposure

**Target Organ Effects** Kidney, Eyes, Respiratory system, Skin.

Aspiration Hazard No information available.

Other information No information available.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Toxic to aquatic life Toxic to aquatic life with long lasting effects

Chemical Name Toxicity to algae Toxicity to		Toxicity to fish	Toxicity to daphnia and other
			aquatic invertebrates
glycerol	-	LC50 51 - 57 mL/L (Oncorhynchus	EC50 500 mg/L (Daphnia magna)
		mykiss) 96 h	24 h
sodium dodecyl sulphate	EC50 53 mg/L (Desmodesmus	LC50 8 - 12.5 mg/L (Pimephales	EC50 21.2 mg/L (Daphnia magna)
	subspicatus) 72 h EC50 30 - 100	promelas) 96 h LC50 4.1 mg/L	24 h EC50 1.8 mg/L (Daphnia
	mg/L (Desmodesmus subspicatus)	(Leuciscus idus) 48 h LC50 22.1 -	magna) 48 h
	96 h EC50 42 mg/L (Desmodesmus	22.8 mg/L (Pimephales promelas)	
	subspicatus) 96 h EC50 3.59 - 15.6	96 h LC50 4.3 - 8.5 mg/L	
	mg/L (Pseudokirchneriella	(Oncorhynchus mykiss) 96 h LC50	
	subcapitata) 96 h EC50 117 mg/L	4.62 mg/L (Oncorhynchus mykiss)	
	(Pseudokirchneriella subcapitata)	96 h LC50 4.2 mg/L (Oncorhynchus	
	96 h	mykiss) 96 h LC50 7.97 mg/L	
		(Brachydanio rerio) 96 h LC50 9.9 -	
		20.1 mg/L (Brachydanio rerio) 96 h	
		LC50 4.06 - 5.75 mg/L (Lepomis	
		macrochirus) 96 h LC50 4.2 - 4.8	
		mg/L (Lepomis macrochirus) 96 h	
		LC50 4.5 mg/L (Lepomis	
		macrochirus) 96 h LC50 5.8 - 7.5	
		mg/L (Pimephales promelas) 96 h	
		LC50 10.2 - 22.5 mg/L (Pimephales	
		promelas) 96 h LC50 6.2 - 9.6 mg/L	
		(Pimephales promelas) 96 h LC50	
		13.5 - 18.3 mg/L (Poecilia reticulata)	
		96 h LC50 10.8 - 16.6 mg/L	
		(Poecilia reticulata) 96 h LC50 1.31	
		mg/L (Cyprinus carpio) 96 h LC50	
		15 - 18.9 mg/L (Pimephales	
		promelas) 96 h	
sodium azide	EC50 0.35 mg/L		LC100 1 mg/L (Orconectes rusticus)
	(Pseudokirchneriella subcapitata)	mykiss) 96 h LC50 5.46 mg/L	96 h
	96 h	(Pimephales promelas) 96 h LC50	
		0.7 mg/L (Lepomis macrochirus) 96	
		h	

**Unknown Aquatic Toxicity** 

0% of the mixture consists of components of unknown hazards to the aquatic environment.

12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulation**No information available. **Bioconcentration factor (BCF)**No information available.

Chemical Name	Octanol-Water Partition Coefficient
glycerol	-1.76
sodium dodecyl sulphate	1.6

### 12.4. Mobility in soil

.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

No information available

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste from residues / unused

products

Contaminated packaging

Dispose of in accordance with local regulations.

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

disposal.

Other information According to the European Waste Catalogue, Waste Codes are not product specific, but

application specific. Waste codes should be assigned by the user based on the application

for which the product was used.

# **SECTION 14: Transport information**

This material is not subject to regulation as a hazardous material for shipping.

### IMDG/IMO

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
14.7 Transport in bulk according to	Not regulated
Annex II of MARPOL 73/78 and the	

IBC Code

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

# <u>IATA</u>

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated

### 12949 Color-coded Prestained Protein Marker, High Range (43-315 kDa)

14.4 Packing group Not regulated

14.5 Environmental hazards None14.6 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)

DSL/NDSL Complies

EINECS/ELINCS - ENCS -

IECSC Complies

KECL -

PICCS Complies 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

H319 - Causes serious eye irritation

Classification procedure: Expert judgment and weight of evidence determination.

 Issuing Date:
 2013-12-26

 Revision Date:
 2018-05-24

**Disclaimer** 

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, 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.