

Safety Data Sheet (SDS) According to the OSHA Hazard Communication Standard 29 CFR 1910.1200

Issuing Date: 2013-12-26	Revision Date: 2018-05-24	Version: 2
	SECTION 1. Identification	
Product identifier		
Product No Product name	12949 Color-coded Prestained Protein Marker, High Range (43-315 kDa)	
Recommended use of the chemical and restrictions on use		
Identified uses Manufacturer, importer, supplier	This product is intended for research purposes only.	
Manufacturer address	Cell Signaling Technology, Inc. 3 Trask Lane Danvers, MA 01923 United States TEL: +1 978 867 2300 FAX: +1 978 867 2400	
Website	www.cellsignal.com	
Email address	support@cellsignal.com	
Emergency telephone number	In case of emergency call CHEMTREC 1-800-424-9300	
SECTION 2. Hazard(s) identification		

## **Classification**

This substance/mixture is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2A

## GHS Label elements, including precautionary statements



Signal Word Warning

Hazard statement(s) Causes serious eye irritation.

#### **Precautionary Statement(s)**

Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

## Supplementary Hazard Information

No information available. Hazards not otherwise classified (HNOC) Not applicable.

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

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

Chemical Name	CAS No	Weight %
glycerol	56-81-5	25-35
sodium dodecyl sulphate	151-21-3	1-3

SECTION 4. First-aid measures		
Eye contact Skin contact Inhalation	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Wash skin with soap and water. Move to fresh air. Consult a physician. If not breathing, give artificial respiration.	
Ingestion	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.	

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

Eye irritation.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## Advice for emergency responders

General advice	For further assistance, contact your local Poison Control Center.
Protection of first-aiders	Use personal protective equipment.

# **SECTION 5. Fire-fighting measures**

Extinguishing media

Suitable Extinguishing MediaUse extinguishing measures that are appropriate to local circumstances and the<br/>surrounding environment.Unsuitable Extinguishing MediaCAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full

protective gear.

## **SECTION 6.** Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Ensure adequate ventilation.
Other information	No information available.

## Environmental precautions

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

#### 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	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.

## **SECTION 7. Handling and storage**

## 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.

### Conditions for safe storage, including any incompatibilities

Technical measures/Storage	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of
conditions	children.
Packaging material	No information available.
Incompatible products	None known based on information supplied.

## **SECTION 8. Exposure controls/personal protection**

#### Control parameters

Ingredients with workplace control parameters:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL
glycerol	-	TWA mist, total particulate: 15	-
		mg/m <sup>3</sup>	
		TWA mist, respirable fraction:	
		5 mg/m <sup>3</sup>	

(vacated) = Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

#### Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

## Individual protection measures, such as personal protective equipment

Personal protective equipment (PPE) needs to be selected depending on the implemented engineering controls, frequency/duration of work activities and the concentrations of the hazardous substance.

Eye/face protection Skin and body protection	Safety glasses with side-shields Wear protective gloves/clothing.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved
	respiratory protection should be worn. Positive-pressure supplied air respirators may be
	required for high airborne contaminant concentrations. Respiratory protection must be

Hygiene measures

provided in accordance with current local regulations. Do not eat, drink or smoke when using this product.

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

## Information on basic physical and chemical properties

Physical state Appearance Odor	Liquid No information available No information available	Color Odor Threshold	Purple No information available
<u>Property</u> pH Melting point/freezing point Initial boiling point and boiling range	<u>Values</u> 7.5	<u>Remarks Method</u>	
Flash point Evaporation rate Flammability (solid, gas)	No information available No information available	-	
Upper flammability limit Lower flammability limit Vapor pressure	No information available No information available No information available		
Vapor density Relative density Solubility	No information available No information available Partly soluble		
Solubility in other solvents Partition coefficient: n-octanol/wate Autoignition temperature	No information available.		
Decomposition temperature Viscosity Viscosity, dynamic	No information available No information available No information available		
Explosive properties Oxidizing properties	No information available No information available		
Other information Softening point Molecular Weight VOC content Density Bulk Density VALUE	No information available No information available No information available No information available. No information available.		

# **SECTION 10. Stability and reactivity**

## **Reactivity**

No information available.

## Chemical stability

Stable under recommended storage conditions.

## Possibility of hazardous reactions

Hazardous reactions	None under normal processing.
Hazardous polymerization	None under normal processing.

#### Conditions to Avoid

No information available.

## Incompatible Materials

None known based on information supplied.

#### Hazardous Decomposition Products

None known based on information supplied.

# **SECTION 11. Toxicological information**

## Information on likely routes of exposure

Inhalation	There is no data available for this product.
Eye contact	Avoid contact with eyes. Irritating to eyes.
Skin contact	There is no data available for this product.
Ingestion	There is no data available for this product.

#### 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	= 200 mg/kg (Rabbit)	> 3900 mg/m³(Rat)1 h
	(Rat)		

**Unknown Acute Toxicity** 

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

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Symptoms	Eye irritation.
Sensitization	No information available.
Mutagenic effects	No information available.
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identifiable as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organ Effects	Kidney, Eyes, Respiratory system, Skin.
Neurological effects	No information available.
Aspiration Hazard	No information available.

# **SECTION 12. Ecological information**

## **Ecotoxicity**

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

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 dodecyl sulphate	EC50 53 mg/L (Desmodesmus subspicatus) 72 h EC50 30 - 100 mg/L (Desmodesmus subspicatus) 96 h EC50 42 mg/L (Desmodesmus subspicatus) 96 h EC50 3.59 - 15.6 mg/L (Pseudokirchneriella subcapitata) 96 h EC50 117 mg/L (Pseudokirchneriella subcapitata) 96 h		EC50 21.2 mg/L (Daphnia magna) 24 h EC50 1.8 mg/L (Daphnia magna) 48 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 ma/L
(Poecilia reticulata) 96 h LC50 1.31
mg/L (Cyprinus carpio) 96 h LC50
15 - 18.9 mg/L (Pimephales
promelas) 96 h
promeias) 96 h

# Persistence and degradabilityNo information available.BioaccumulationNo information available.Mobility

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

## Other adverse effects

No information available.

# **SECTION 13.** Disposal considerations

## Waste Disposal Methods

Dispose of in accordance with all applicable national environmental laws and regulations.

#### Disposal considerations

Do not empty into drains; dispose of this material and its container in a safe way.

## **SECTION 14. Transport information**

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

# **SECTION 15. Regulatory information**

North American Inventory Listing

Chemical Name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL
glycerol	Listed	Not Listed	Listed	Not Listed
sodium dodecyl sulphate	Listed	Not Listed	Listed	Not Listed

## Canadian Workplace Hazardous Materials Information System (WHMIS) Classification

This product does not meet the criteria for classification under the Hazardous Products Act.

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

## SARA 311/312 Hazard Categories

## Acute Health Hazard

Yes

Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

## Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## California Proposition 65

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
glycerol	Listed	Listed	Listed
sodium azide	Listed	Listed	Listed

## U.S. FIFRA Label Information

This product does not contain any substances regulated as pesticides.

#### US Commerce Department - Export Administration Regulations Information

This product does not contain any substances regulated under the Chemical Weapons Convention (CWC).

## U.S. Drug Enforcement Administration Information

This product does not contain any substances regulated under the DEA.

# **SECTION 16. Other information**

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## **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.

End of Safety Data Sheet