SAFETY DATA SHEET

Issuing Date: no data available Revision Date: 2013-12-26 Version 1

1. IDENTIFICATION

Product identifier

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

Product No. 12949

Recommended use of the chemical and restrictions on use

Identified uses This product is intended for research purposes only.

Uses advised againstThis product is not intended for use in diagnostic procedures or therapeutics.

This product is not intended for use in humans or animals.

Manufacturer, Importer, Supplier

Manufacturer Address Cell Signaling Technology, Inc.

3 Trask Lane Danvers, MA 01923 TEL: +1 978 867 2300 FAX: +1 978 867 2400

Website www.cellsignal.com
Email Address support@cellsignal.com

Company Phone Number 978-867-2300

Emergency telephone number In case of emergency call CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

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

Serious eye damage/eye irritation Category 2B

GHS Label elements, including precautionary statements

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Signal Word

WARNING

Hazard Statement(s)

Causes eye irritation

Precautionary Statement(s)

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Response

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.

Storage None

Disposal

None

Supplementary Hazard Information

Hazards not otherwise classified (HNOC)

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Common Name

No information available.

Synonyms

No information available.

4. FIRST AID MEASURES

First Aid Measures

Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while Eye contact

rinsing.

Skin contact Consult a physician if necessary. Wash off immediately with soap and plenty of water

removing all contaminated clothes and shoes.

Inhalation 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

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No information available. **Main Symptoms**

Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

Advice for emergency responders

General advice If symptoms persist, call a physician. Show this safety data sheet to the doctor in

attendance. Do not breathe dust/fume/gas/mist/vapors/spray.

Protection of First-aiders Use personal protective equipment.

5. FIRE-FIGHTING MEASURES

Extinguishing media

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

surrounding environment.

Unsuitable Extinguishing Media CAUTION: 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

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions 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.

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

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children.

Packaging material No information available.

Incompatible productsNone known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

conditions

Ingredients with workplace control parameters:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
glycerol	TWA: 10 mg/m ³	TWA: 15 mg/m ³ TWA: 5 mg/m ³	-
56-81-5		(vacated) TWA: 10 mg/m ³	
		(vacated) TWA: 5 mg/m ³	

Other Exposure Guidelines

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

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

provided in accordance with current local regulations.

Hygiene measures Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance No information available Odor No information available

Color Purple

Odor Threshold No information available

pH 7.5

Melting point/freezing point
Boiling Point/Range
Flash point
Evaporation Rate
Flammability (solid, gas)
Upper flammability limits
No information available

Upper flammability limits
Lower flammability limit
Vapor pressure
Vapor density

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

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Specific Gravity No information available

Water Solubility Partly soluble

No information available Solubility in other solvents **Partition coefficient** No information available **Autoignition temperature** No information available **Decomposition temperature** No information available **Explosive properties** No information available No information available **Oxidizing Properties** No information available **VOC Content** No information available Viscosity **Density** No information available **Bulk Density VALUE** No information available

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.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

InhalationThere is no data available for this product.Eye contactThere is no data available for this product.Skin contactThere is no data available for this product.IngestionThere is no data available for this product.

Information on toxicological effects

Product InformationClassification 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
sodium dodecyl sulphate 151-21-3	= 1288 mg/kg (Rat)	= 580 mg/kg (Rabbit)	> 3900 mg/m³(Rat)1 h

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glycerol	= 12600 mg/kg (Rat)	> 21900 mg/kg (Rat)	-
56-81-5			

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

Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, **Symptoms**

reddening and swelling accompanied by a stinging sensation and/or a feeling like that of

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fine dust in the eyes.

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

Carcinogenicity Contains no ingredient listed as a carcinogen.

Reproductive Toxicity No information available. **Developmental Toxicity** No information available. No information available. **Teratogenicity** STOT - single exposure No information available. STOT - repeated exposure No information available.

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

Neurological effects No information available. No information available. **Aspiration Hazard** Endocrine Disruptor Information No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to	Toxicity to daphnia and
			microorganisms	other aquatic invertebrates

	T	T		
sodium dodecyl sulphate	53: 72 h Desmodesmus	1.31: 96 h Cyprinus carpio	-	1.8: 48 h Daphnia magna
151-21-3	subspicatus mg/L EC50 3.59			mg/L EC50
	- 15.6: 96 h	12.5: 96 h Pimephales		
	Pseudokirchneriella	promelas mg/L LC50 static		
	subcapitata mg/L EC50	7.97: 96 h Brachydanio rerio		
	static 117: 96 h	mg/L LC50 flow-through 4.2		
	Pseudokirchneriella	- 4.8: 96 h Lepomis		
	subcapitata mg/L EC50 30 -	macrochirus mg/L LC50		
	100: 96 h Desmodesmus	flow-through 4.3 - 8.5: 96 h		
	subspicatus mg/L EC50	Oncorhynchus mykiss mg/L		
		LC50 static 6.2 - 9.6: 96 h		
		Pimephales promelas mg/L		
		LC50 4.62: 96 h		
		Oncorhynchus mykiss mg/L		
		LC50 flow-through 13.5 -		
		18.3: 96 h Poecilia reticulata		
		mg/L LC50 semi-static 22.1 -		
		22.8: 96 h Pimephales		
		promelas mg/L LC50 static		
		5.8 - 7.5: 96 h Pimephales		
		promelas mg/L LC50 static		
		10.8 - 16.6: 96 h Poecilia		
		reticulata mg/L LC50 static		
		9.9 - 20.1: 96 h Brachydanio		
		rerio mg/L LC50 semi-static		
		4.06 - 5.75: 96 h Lepomis		
		macrochirus mg/L LC50		
		static 10.2 - 22.5: 96 h		
		Pimephales promelas mg/L		
		LC50 semi-static 4.5: 96 h		
		Lepomis macrochirus mg/L		
		LC50 4.2: 96 h		
		Oncorhynchus mykiss mg/L		
		LC50 15 - 18.9: 96 h		
		Pimephales promelas mg/L		
		LC50 static		
glycerol	-	51 - 57: 96 h Oncorhynchus	-	500: 24 h Daphnia magna
56-81-5		mykiss mL/L LC50 static		mg/L EC50

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Persistence and degradability Bioaccumulation Mobility No information available. No information available.

Chemical Name	log Pow
sodium dodecyl sulphate 151-21-3	1.6
glycerol 56-81-5	0

Other adverse effects

No information available.

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.

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14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

All of the components in the product are on the following Inventory lists:

TSCA DSL

NDSL Complies

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 56-81-5	X	X	Х

U.S. EPA Label Information

This product does not contain any substances regulated as pesticides.

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.

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End of Material Safety Data Sheet