

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

Issuing Date: 2018-11-06 Version: 1

## **SECTION 1. Identification**

Product identifier

Product No 14474

Product name Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (197G2)

Rabbit mAb (HRP Conjugate)

Recommended use of the chemical and restrictions on use

**Identified uses**This product is intended for research purposes only.

Manufacturer, importer, supplier

Manufacturer address Cell Signaling Technology, Inc.

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Email address support@cellsignal.com
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# SECTION 2. Hazard(s) identification

## Classification

Website

This substance/mixture is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### GHS Label elements, including precautionary statements

Signal Word

None.

Hazard statement(s)

None.

**Precautionary Statement(s)** 

None.

**Supplementary Hazard Information** 

No information available.

Hazards not otherwise classified (HNOC)

Not applicable.

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

Chemical name	CAS No.	Weight-%
glycerol	56-81-5	30-60

## **SECTION 4. First-aid measures**

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water.

**Inhalation** Move to fresh air.

**Ingestion** Clean mouth with water and afterwards drink plenty of water.

## 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.

## 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 Ensure that medical personnel are aware of the material(s) involved, and take precautions

to protect themselves.

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

## **Extinguishing media**

surrounding environment.

Unsuitable Extinguishing Media None.

# 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 Avoid contact with skin, eyes and clothing. Use personal protective equipment.

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**Other information** No information available.

### **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.

### 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.

# **SECTION 7. Handling and storage**

### Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

### Conditions for safe storage, including any incompatibilities

Technical measures/Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

conditions

Packaging materialNo information available.Incompatible productsStrong oxidizing agents, Metals.

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

### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH REL
glycerol	-	TWA mist, total particulate: 15	-
		mg/m³	
		TWA mist, respirable fraction:	
		5 mg/m³	

## 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
Respiratory protection

Safety glasses with side-shields Wear protective gloves/clothing.

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** Handle in accordance with good industrial hygiene and safety practice.

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

## Information on basic physical and chemical properties

Physical state Liquid

Appearance Clear Color Colorless

Odor No information available Odor Threshold No information available

Property Values Remarks Method @ 20 °C Hq 7.4 Melting point/freezing point Initial boiling point and boiling range Flash point **Evaporation rate** No information available Flammability (solid, gas) No information available Upper flammability limit No information available Lower flammability limit No information available Vapor pressure No information available Vapor density No information available Relative density No information available No information available. Solubility Solubility in other solvents No information available. Partition coefficient: n-octanol/waterNo information available No information available **Autoignition temperature Decomposition temperature** No information available Viscosity No information available Viscosity, dynamic No information available **Explosive properties** No information available No information available **Oxidizing properties** Other information No information available Softening point Molecular Weight No information available **VOC** content No information available

# **SECTION 10. Stability and reactivity**

No information available

No information available

## Reactivity

Liquid Density Bulk density

No information available.

## **Chemical stability**

Stable under recommended storage conditions.

### Possibility of hazardous reactions

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

## **Conditions to Avoid**

Protect from light. Extremes of temperature and direct sunlight.

# **Incompatible Materials**

Strong oxidizing agents. Metals.

### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon oxides (COx). Nitrogen oxides (NOx).

## **SECTION 11. Toxicological information**

### Information on likely routes of exposure

**Inhalation** Avoid breathing vapors or mists.

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

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

## Information on toxicological effects

This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxicological and physiological properties of this compound is not well defined.

	Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Γ	glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat) 1 h

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

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.

**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
STOT - single exposure
STOT - repeated exposure
Neurological effects
Aspiration Hazard
No information available.
No information available.
No information available.

# **SECTION 12. Ecological information**

## **Ecotoxicity**

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)
		mykiss) 96 h	24 h

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

Chemical name	Octanol-Water Partition Coefficient
glycerol	-1.76

#### 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

### 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	No
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

This product contains the following U.S. State Right to Know chemicals:

Chemical name	New Jersey	Massachusetts	Pennsylvania
glycerol	Listed	Listed	Listed
disodium hydrogenorthophosphate	Listed	Listed	Listed

### U.S. FIFRA Label Information

This product does not contain any substances regulated as pesticides.

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## 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**