

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

Issuing Date: 2019-02-07 Version: 1

## **SECTION 1. Identification**

Product identifier

Product No 9646

Product name Phospho-Akt Substrate (RXXS\*/T\*) (110B7E) Rabbit mAb

(Sepharose® Bead Conjugate)

Recommended use of the chemical and restrictions on use

**Identified uses** For research use only.

Manufacturer, importer, supplier

Manufacturer address Cell Signaling Technology, Inc.

3 Trask Lane Danvers, MA 01923

United States TEL: +1 978 867 2300

FAX: +1 978 867 2400 www.cellsignal.com support@cellsignal.com

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

# SECTION 2. Hazard(s) identification

### Classification

**Email address** 

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

Not classified.

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, also under the eyelids. Keep eye wide open while

rinsing.

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

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Ingestion Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

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

No information available.

## 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 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 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. For personal

protection see section 8. No information available.

### Environmental precautions

Other information

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

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

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

Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. See section 8. 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

conditions

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

**Packaging material** No information available.

Incompatible products None known based on information supplied.

# **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 If splashes are likely to occur, wear: Tightly fitting safety goggles Wear protective gloves/clothing.

Skin and body protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved Respiratory protection

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

#### 9646 - Phospho-Akt Substrate (RXXS\*/T\*) (110B7E) Rabbit mAb (Sepharose® Bead Conjugate)

Appearance Clear Color Colorless

Odor No information available Odor Threshold No information available

Property Values Remarks Method

pH 7.5 @ 20 °C

Melting point/freezing point Initial boiling point and boiling

range

Flash point

Evaporation rate
Plammability (solid, gas)
Upper flammability limit
Lower flammability limit
Vapor pressure
Vapor density
Relative density
Solubility
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

Softening pointNo information availableMolecular WeightNo information availableVOC contentNo information availableLiquid DensityNo information availableBulk densityNo information available

## **SECTION 10. Stability and reactivity**

## Reactivity

No information available.

### Chemical stability

Stable under normal conditions.

## Possibility of hazardous reactions

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

# **Conditions to Avoid**

Extremes of temperature and direct sunlight.

### **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** Avoid breathing vapors or mists.

**Eye contact** Avoid contact with eyes. May cause slight irritation.

**Skin contact** Avoid contact with skin.

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

#### Information on toxicological effects

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

 ATEmix (oral)
 >5000 mg/kg (ATE)

 ATEmix (dermal)
 >5000 mg/kg (ATE)

 ATEmix (inhalation-dust/mist)
 >5 mg/l (ATE)

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

SymptomsNo information available.SensitizationNo information available.Mutagenic effectsNo 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 degradabilityNo information available.BioaccumulationNo information available.MobilityNo 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**

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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**

# 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

#### 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**