



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

**Issuing Date:** 2018-09-18

**Version:** 1

## SECTION 1. Identification

### Product identifier

**Product No** 65666  
**Product name** PTMScan® Cell Growth and Death Antibody Sampler Kit  
**Kit Component**  
9993: PTMScan® IAP Buffer (10X)  
12343: PTMScan® Phospho-ATM/ATR Substrate Motif [pSQ] Immunoaffinity Beads  
5762: PTMScan® Phospho-Akt Substrate Motif (RXRXXS\*/T\*) Immunoaffinity Beads  
14940: PTMScan® Phospho-MAPK Substrate Motif [PXpTP] Immunoaffinity Beads  
1982: PTMScan® Phospho-MAPK/CDK Substrate Motif (PXS\*P, S\*PXX/R) Immunoaffinity Beads  
9817: PTMScan® Cleaved Caspase Substrate Motif [DE(T/S/A)D] Immunoaffinity Beads

### 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.  
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 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****Kit Component** 9993: PTMSan® IAP Buffer (10X)

Chemical Name	CAS No	Weight %
4-morpholinopropanesulphonic acid	1132-61-2	8.06

**Kit Component** 12343: PTMSan® Phospho-ATM/ATR Substrate Motif [pSQ] Immunoaffinity Beads

Chemical Name	CAS No	Weight %
glycerol	56-81-5	25-50

**Kit Component** 5762: PTMSan® Phospho-Akt Substrate Motif (RXRXXS\*/T\*) Immunoaffinity Beads

Chemical Name	CAS No	Weight %
glycerol	56-81-5	25-50

**Kit Component** 14940: PTMSan® Phospho-MAPK Substrate Motif [PXpTP] Immunoaffinity Beads

Chemical Name	CAS No	Weight %
glycerol	56-81-5	25-50

**Kit Component** 1982: PTMSan® Phospho-MAPK/CDK Substrate Motif (PXS\*P, S\*PXX/R) Immunoaffinity Beads

Chemical Name	CAS No	Weight %
glycerol	56-81-5	25-50

**Kit Component** 9817: PTMSan® Cleaved Caspase Substrate Motif [DE(T/S/A)D] Immunoaffinity Beads

Chemical Name	CAS No	Weight %
glycerol	56-81-5	25-50

**SECTION 4. First-aid measures****Eye contact**

Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention immediately if symptoms occur.

**Skin contact**

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

**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**

None.

**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****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

None.

**Specific hazards arising from the chemical**

None in particular.

**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**

See Section 12 for additional information.

**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**

Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

Keep container tightly closed in a dry 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/m <sup>3</sup> TWA mist, respirable fraction: 5 mg/m <sup>3</sup>	
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**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. Goggles.

**Skin and body protection**

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**

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9. Physical and chemical properties

**Information on basic physical and chemical properties****Kit Component**

Physical state

Appearance

Color

pH VALUE

Remarks

**9993: PTMSan® IAP Buffer (10X)**

Liquid

Clear

Colorless

7.25

@ 20 °C

**Kit Component**

Physical state

Appearance

Color

**12343: PTMSan® Phospho-ATM/ATR Substrate Motif [pSQ] Immunoaffinity Beads**

Liquid

Thick Slurry

Clear

**Kit Component**

Physical state

Appearance

Color

**5762: PTMSan® Phospho-Akt Substrate Motif (RXRXXS\*/T\*) Immunoaffinity Beads**

Liquid

Thick Slurry

Clear

**Kit Component**

Physical state

Appearance

Color

**14940: PTMSan® Phospho-MAPK Substrate Motif [PXpTP] Immunoaffinity Beads**

Liquid

Thick Slurry

Clear

**Kit Component**

Physical state

Appearance

Color

**1982: PTMSan® Phospho-MAPK/CDK Substrate Motif (PXS\*P, S\*PXX/R) Immunoaffinity Beads**

Liquid

Thick Slurry

Colorless

**Kit Component**

Physical state

Appearance

Color

**9817: PTMSan® Cleaved Caspase Substrate Motif [DE(T/S/A)D] Immunoaffinity Beads**

Liquid

Thick Slurry

Clear

**SECTION 10. Stability and reactivity****Reactivity**

No information available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

<b>Hazardous reactions</b>	None under normal processing.
<b>Hazardous polymerization</b>	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****Product Information**

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.

<b>Inhalation</b>	There is no data available for this product
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**Eye contact**

<b>Kit Component</b>	<b>9993: PTMSan® IAP Buffer (10X)</b>
Eye contact	Contact with eyes may cause irritation

**Skin contact**

<b>Kit Component</b>	<b>9993: PTMSan® IAP Buffer (10X)</b>
Skin contact	May cause irritation Contact with skin may cause mild irritation.

<b>Ingestion</b>	There is no data available for this product
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**Information on toxicological effects****Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
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glycerol	= 12600 mg/kg (Rat)	> 10 g/kg ( Rabbit )	> 570 mg/m <sup>3</sup> ( Rat ) 1 h
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**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Symptoms</b>	None.
<b>Skin and Eye Corrosion/Irritation</b>	No information available
<b>Sensitization</b>	No information available
<b>Mutagenic effects</b>	No information available
<b>Carcinogenicity</b>	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.
<b>Reproductive toxicity</b>	No information available.
<b>Systemic Target Organ Toxicity (STOT)</b>	
<b>Aspiration Hazard</b>	No information available.

**SECTION 12. Ecological information****Ecotoxicity**

<b>Product Information</b>	No information available
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**Component Information**

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

<b>Persistence and degradability</b>	No information available
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**Bioaccumulation**

Chemical Name	Octanol-Water Partition Coefficient
glycerol	-1.76

<b>Mobility</b>	No information available
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**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.

**DOT** Not regulated

**IATA** Not regulated

## 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
4-morpholinopropanesulphonic acid	Listed	Not Listed	Listed	Not Listed

### 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

Refer to kit component SDS for applicable State Right-To-Know (RTK) information.

Chemical Name	New Jersey	Massachusetts	Pennsylvania
glycerol	Listed	Listed	Listed
disodium hydrogenorthophosphate	Listed	Listed	Listed
sodium hydroxide	Listed	Listed	Listed
disodium hydrogenorthophosphate	Listed	Listed	Listed
sodium hydroxide	Listed	Listed	Listed

## SECTION 16. Other information

**Issuing Date:** 2018-09-18

**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