

Safety Data Sheet (SDS) According to the REACH Regulation (EC) No. 1907/2006

Issuing Date: 2019-06-12 Version: 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product No 1150

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

Peptide

Reach registration number This substance/mixture contains only ingredients which have been registered, or are

exempt from registration, according to Regulation (EC) No. 1907/2006.

Contains

 Chemical name
 Index No.
 CAS No.

 glycerol (0 - 10%)
 Not Listed
 56-81-5

 dimethyl sulfoxide (0 - 10%)
 Not Listed
 67-68-5

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses For research use only

1.3. Details of the supplier of the safety data sheet

Importer (Applicable in EU only) Manufacturer

Cell Signaling Technology Europe B.V. Cell Signaling Technology, Inc.

Dellaertweg 9b 3 Trask Lane
2316 WZ Leiden Danvers, MA 01923
The Netherlands United States

TEL: +31 (0)71 7200 200 TEL: +1 978 867 2300 FAX: +31 (0)71 891 0019 FAX: +1 978 867 2400

Website www.cellsignal.com E-mail Address info@cellsignal.eu

1.4. Emergency telephone number

CHEMTREC 24 hours a day, 7 days a week, 365 days a year +1 703 527 3887 (INTERNATIONAL) +1 800 424 9300 (NORTH AMERICA)

Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This substance/mixture does not meet the criteria for classification in accordance with Regulation (EC) No. 1272/2008

2.2. Label elements

Supplemental hazard statement(s)

EUH210 - Safety data sheet available on request

2.3. Other hazards

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

Causes mild skin irritation.

For the full text of the H-phrases & EUH-phrases mentioned in this Section, see Section 16

SECTION 3: Composition/information on ingredients

Chemical name	CAS No.	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
glycerol	56-81-5	5	200-289-5	-	no data available
dimethyl sulfoxide	67-68-5	1	200-664-3	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	no data available

For the full text of the H-phrases & EUH-phrases mentioned in this Section, see Section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Use first aid treatment according to the nature of the injury. When symptoms persist or in all

cases of doubt seek medical advice.

Inhalation Move to fresh air.

Skin contactWash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. If symptoms persist, call a physician.

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

Consult a physician.

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

4.2. Most important symptoms and effects, both acute and delayed

Mild skin irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

surrounding environment.

Unsuitable Extinguishing Media No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure

adequate ventilation.

6.2. Environmental precautions

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.3. 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 Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

See Sections 8 & 13 for additional information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Use as a laboratory reagent.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical name	European Union	United Kingdom	France	Spain	Germany
glycerol		STEL 30 mg/m ³	TWA 10 mg/m ³	TWA 10 mg/m ³	Ceiling / Peak: 400
		TWA 10 mg/m ³			mg/m³
					TWA: 200 mg/m ³
dimethyl sulfoxide					Skin
					Ceiling / Peak: 100
					ppm
					Ceiling / Peak: 320
					mg/m³
					TWA: 50 ppm
					TWA: 160 mg/m ³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
glycerol		TWA 10 mg/m ³		TWA 20 mg/m ³	
dimethyl sulfoxide				TWA 50 ppm	TWA 50 ppm
				iho*	TWA 160 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
glycerol		SS-C**	TWA 10 mg/m ³		TWA 10 mg/m ³
		TWA 50 mg/m ³	_		STEL 30 mg/m ³
		STEL 100 mg/m ³			_
dimethyl sulfoxide	H*	H*			
	TWA 50 ppm	TWA 50 ppm			

TWA 160 mg/m ³	TWA 160 mg/m³ STEL 100 ppm		
	STEL 320 mg/m ³		

8.2. Exposure controls

Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Eve/face protection Safety glasses with side-shields

Skin protection

Hand protection Impervious gloves.

Other Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation wear respiratory protection.

Environmental Exposure Controls

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid
Appearance Clear
Color Colorless
Odor Odorless

Odor Threshold No information available

PropertyValuesRemarks • MethodpH6.8No information availableMelting point/freezing pointNo information availableInitial boiling point and boilingNo information available

range

Flash point No information available. **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 Solubility No information available Partition coefficient: n-octanol/water No information available **Autoignition temperature** No information available **Decomposition temperature** No information available. **Viscosity** No information available

Decomposition temperatureNo information availableViscosityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information available

9.2. Other information

Softening point
Molecular Weight
Solubility in other solvents
VOC content
Liquid Density
No information available
No information available
No information available
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization **Hazardous reactions**

Hazardous polymerization does not occur.

None under normal processing.

10.4. Conditions to avoid

Strong oxidizing agents.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon oxides (COx).

SECTION 11: Toxicological information

11.1. 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
glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat) 1 h
dimethyl sulfoxide	14500 mg/kg (Rat)	40000 mg/kg (Rat)	-

Unknown Acute Toxicity

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

Information on likely routes of exposure

There is no data available for this product. Inhalation There is no data available for this product. Eye contact

Skin contact May cause irritation.

Ingestion There is no data available for this product.

Symptoms Mild skin irritation. Skin corrosion/irritation No information available. Serious eye damage/eye irritation No information available. Sensitization No information available. **Mutagenic effects** No information available. Carcinogenic effects No information available. Reproductive toxicity No information available. No information available. No information available.

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

SECTION 12: Ecological information

12.1. Toxicity

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
dimethyl sulfoxide	EC50 12350 - 25500 mg/L	LC50 40 g/L (Lepomis macrochirus)	EC50 7000 mg/L (Daphnia species)
	(Skeletonema costatum) 96 h	96 h LC50 33 - 37 g/L	24 h
		(Oncorhynchus mykiss) 96 h LC50	
		34000 mg/L (Pimephales promelas)	
		96 h LC50 41.7 g/L (Cyprinus	
		carpio) 96 h	

Unknown Aquatic Toxicity

1.4857% of the mixture consists of components of unknown hazards to the aquatic environment.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

BioaccumulationNo information available.

Bioconcentration factor (BCF)

No information available.

Chemical name	Octanol-Water Partition Coefficient
glycerol	-1.76
dimethyl sulfoxide	-2.03

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Other information

Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

IMDG/IMO

14.1UN numberNot regulated14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated14.5Environmental hazardsNone14.6Special precautions for userNone

14.6 Special precautions for user None
14.7 Transport in bulk according to Not regulated

Annex II of MARPOL 73/78 and the

IBC Code

ADR/RID

14.1 UN numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated

14.5 Environmental hazards None 14.6 Special precautions for user None

IATA

14.1UN numberNot regulated14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated14.5Environmental hazardsNone14.6Special precautions for userNone

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Candidate List of Substances of Very High Concern for Authorization Information

This product does not contain Substances of Very High Concern (SVHC).

SEVESO Directive Information

This product does not contain substances identified in the SEVESO Directive.

International inventories

TSCA 8(b)

DSL/NDSL Complies

EINECS/ELINCS -

ENCS ·

IECSC Complies
KECL PICCS Complies
AICS Complies

International inventories legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out

SECTION 16: Other information

Full text of H-Statements referred to under Sections 2 and 3

This substance/mixture does not meet the criteria for classification in accordance with Regulation (EC) No. 1272/2008

Classification procedure: Expert judgment and weight of evidence determination.

Issuing Date: 2019-06-12

Disclaimer

1150 Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) Blocking Peptide	
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