

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

Issuing Date: 2018-06-25

Version: 1

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

1.1. Product identifier

Product No Product name	72969 PTMScan® Trypsin, Mass Spectrometry Grade	
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.	
<u>Contains</u>		
Chemical Name Trypsin (90 - 100%)	Index No. 647-010-00-7	CAS No 9002-07-7
1.2. Relevant identified uses of the s	substance or mixture and uses a	dvised against
Identified uses	For research use only	
1.3. Details of the supplier of the saf	ety data sheet	
Importer (Applicable in EU only) Cell Signaling Technology Europe B.V Schuttersveld 2 2316 ZA Leiden The Netherlands TEL: +31 (0)71 7200 200 FAX: +31 (0)71 891 0098	Manufacturer Cell Signaling Technology, Ind 3 Trask Lane Danvers, MA 01923 United States TEL: +1 978 867 2300 FAX: +1 978 867 2400	С.
Website E-mail Address 1.4. Emergency telephone number	www.cellsignal.com info@cellsignal.eu	
CHEMTREC 24 hours a day, 7 days +1 703 527 3887 (INTERNATIONAL) -		CA)
Europe	112	
	SECTION 2: Hazards in	dentification
2.1. Classification of the substance	or mixture	
Regulation (EC) No. 1272/2008		

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Respiratory sensitization	Category 1 - (H334)
Specific target organ toxicity - single exposure (STOT SE)	Category 3 - (H335,H336)

2.2. Label elements



Signal word Danger

Hazard statement(s)

H315 - Causes skin irritation

- H319 Causes serious eye irritation
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H336 May cause drowsiness or dizziness

H335 - May cause respiratory irritation

Precautionary statement(s)

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

- P264 Wash face, hands and any exposed skin thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective gloves and eye/face protection
- P284 In case of inadequate ventilation wear respiratory protection
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to
- do. Continue rinsing

P312 - Call a POISON CENTER or doctor if you feel unwell

- P332 + P313 If skin irritation occurs: Get medical advice/attention
- P337 + P313 If eye irritation persists: Get medical advice/attention
- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
- P362 + P364 Take off contaminated clothing and wash it before reuse
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

0 % of the mixture consists of ingredient(s) of unknown acute toxicity. May produce an allergic reaction.

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
Trypsin	9002-07-7	100	232-650-8	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) STOT SE 3 (H335)	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 Inhalation	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin contact	Wash off with soap and water. If skin irritation persists, 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	Rinse mouth. Never give anything by mouth to an unconscious person. Consult a physician.

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

Eye irritation. Skin irritation. Respiratory irritation. 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.

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

Suitable Extinguishing Media	Dry chemical, CO2, water spray or alcohol-resistant foam.
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. Ensure adequate ventilation. Avoid dust formation.	
	Avoid breathing vapors or mists. For personal protection see section 8.	
For emergency responders	Use personal protection recommended in Section 8.	

6.2. Environmental precautions

Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and material for containment and cleaning up

Methods for containment	Cover powder spill with plastic sheet or tarp to minimize spreading. Prevent dust cloud.
Methods for cleaning up	Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Keep in
	suitable, closed containers for disposal. Clean contaminated surface thoroughly.

6.4. Reference to other sections

See Sections 8 & 13 for additional information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. May form combustible dust concentrations in air if small particles are generated during further processing, handling or by other means. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Protect from light. Keep at temperatures below -20°C.

7.3. Specific end use(s)

Use as a laboratory reagent.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipmentEye/face protectionSafety glasses with side-shieldsSkin protectionImpervious gloves.Hand protectionWear suitable protective clothing.OtherIn 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 Appearance Color Odor Odor Threshold	Solid Powder No information available No information available No information available	
Property pH Melting point/freezing point Initial boiling point and boiling range Flash point Evaporation rate Flammability (solid, gas) Upper flammability limit Lower flammability limit Vapor pressure	<u>Values</u>	Remarks • Method No information available No information available No information available. No information available No information available No information available No information available No information available

Vapor density Relative density Solubility Partition coefficient: n-octanol/water Autoignition temperature Decomposition temperature Viscosity Explosive properties Oxidizing properties

9.2. Other information Softening point Molecular Weight Solubility in other solvents VOC content Density

No information available No information available No information available 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 polymerization does not occur.
Hazardous reactions	Can react briskly with oxidizers - danger of explosion.

10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO₂).

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
Trypsin	> 5 g/kg (Rat)	-	-

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

ATEmix (oral) 5,000.00

Information on likely routes of exposure

Inhalation Eye contact Skin contact Ingestion	May be harmful if inhaled. May cause irritation of respiratory tract. May cause irritation. May be harmful in contact with skin. May cause irritation. Repeated exposure may cause skin dryness or cracking. May cause drowsiness and dizziness. Ingestion causes burns of the upper digestive and respiratory tract.
Symptoms	Eye irritation. Skin irritation. Respiratory irritation. 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.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Sensitization	May cause sensitization by skin contact.
Mutagenic effects	No information available.
Carcinogenic effects	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	Respiratory system.
STOT - repeated exposure	No information available.
Aspiration Hazard	No information available.
Other information	No information available.

SECTION 12: Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Bioaccumulation	No information available.
Bioconcentration factor (BCF)	No information available.

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	
14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	None
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	
14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	None
14.6 Special precautions for user	None
IATA	
14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	None
14.6 Special precautions for user	None

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)	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	-
IECSC	Complies
KECL	Complies
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
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

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

Classification procedure:	Expert judgment and weight of evidence determination.
Issuing Date:	2018-06-25
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.