



SDS number:

Not available.

# SAFETY DATA SHEET

Republic of Korea

In accordance with the Standard for Classification and Labeling of Chemical Substance and Safety Data Sheet, Article 10 Paragraph 1

## Section 1. Chemical product and company identification

**A. Product name** TRYPSIN 0.25% (1X) Solution, with 2.5 g Porcine Trypsin (Irradiated) (1:250)/L in HBSS, w/o Calcium, Magnesium, with EDTA, 500ML

**Catalogue Number** SH30042.02

**Article Number** 29131106

**B. Recommended use of the chemical**

For Further Manufacturing or Research Use. Not for Diagnostic or Therapeutic Use.

**Restrictions on use**

**Uses advised against**

Not applicable.

**Reason**

**C. Supplier's information**

**Manufacturer** HyClone Laboratories  
925 West 1800 South  
**Supplier** Logan, Utah 84321  
Phone: (435) 792-8000

Cytiva Austria  
Kremplstr. 5  
4061 Pasching  
AUSTRIA  
Phone: +43 7229 64865  
Fax (+43) 7229 64866

Cytiva Singapore  
1 Maritime Square #13-01  
Harbourfront Centre  
Singapore 099253

**Distributor** 유동업자 글로벌 라이프 사이언스 솔루션즈 코리아 유한회사  
BRC BLDG., 2동 2층  
송도미래로 9, 연수구  
인천시  
대한민국  
+82 2 3478 4584

**Emergency telephone number  
(with hours of operation)** +82-2-3478-4584  
(9.00 am - 6.00 pm)

## Section 2. Hazards identification

**A. Hazard classification** Not classified.

This product was evaluated in accordance with the Industrial Safety and Health Act and the Chemical Control Act, and determined to be 'not classified'.

**B. GHS label elements, including precautionary statements**

**Signal word** No signal word.

**Hazard statements** No known significant effects or critical hazards.

**Precautionary statements**

**Prevention** Not applicable.

**Response** Not applicable.

**Storage** Not applicable.

**Disposal** Not applicable.

- C. Other hazards which do not result in classification      None known.

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### Section 3. Composition/information on ingredients

Substance/mixture      Mixture  
Other means of identification      Not available.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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### Section 4. First aid measures

- A. Eye contact      Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- B. Skin contact      Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- C. Inhalation      Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- D. Ingestion      Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- E. Notes to physician      Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments      No specific treatment.
- Protection of first-aiders      No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

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### Section 5. Fire-fighting measures

- A. Extinguishing media
- Suitable      Use an extinguishing agent suitable for the surrounding fire.
- Not suitable      None known.
- B. Specific hazards arising from the chemical
- In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products      Decomposition products may include the following materials:  
halogenated compounds  
metal oxide/oxides
- C. Special protective equipment for fire-fighters      Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Special precautions for fire-fighters      Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.  
No action shall be taken involving any personal risk or without suitable training.

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### Section 6. Accidental release measures

- A. Personal precautions, protective equipment and emergency procedures      No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- B. Environmental precautions      Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- C. Methods and materials for containment and cleaning up
- Small spill      Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill      Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

## Section 7. Handling and storage

### A. Precautions for safe handling

<b>Protective measures</b>	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
<b>Advice on general occupational hygiene</b>	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
<b>B. Conditions for safe storage, including any incompatibilities</b>	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### A. Control parameters

#### Occupational exposure limits

Not applicable.

#### Biological exposure indices

No exposure indices known.

<b>B. Appropriate engineering controls</b>	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Environmental exposure controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
<b>C. Personal protective equipment</b>	
<b>Respiratory protection</b>	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
<b>Eye protection</b>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
<b>Skin protection</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Hygiene measures</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### A. Appearance

<b>Physical state</b>	Liquid.
<b>Color</b>	Clear. Reddish
<b>B. Odor</b>	Not available.
<b>C. Odor threshold</b>	Not available.
<b>D. pH</b>	7.2 to 8
<b>E. Melting/freezing point</b>	Not available.
<b>F. Boiling point or initial boiling point and boiling range</b>	Not available.
<b>G. Flash point</b>	Not available.
<b>Fire point</b>	Not available.
<b>Burning time</b>	Not applicable.
<b>Burning rate</b>	Not applicable.

- H. Evaporation rate Not available.
- I. Flammability (solid, gas) Not available.
- J. Lower and upper explosive (flammable) limits Not available.
- K. Vapor pressure Not available.

	Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
		mm Hg	kPa	Method	mm Hg	kPa	Method
	water	17.5	2.3				

- L. Solubility in water Not available.
- M. Vapor density Not available.
- N. Relative density Not available.
- O. Partition coefficient: n-octanol/water Not applicable.
- P. Auto-ignition temperature Not available.
- Q. Decomposition temperature Not available.
- SADT Not available.
- R. Viscosity Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C (104°F)): Not available.
- Flow time (ISO 2431) Not available.
- S. Molecular weight Not applicable.

#### Particle characteristics

- Median particle size Not applicable.

### Section 10. Stability and reactivity

- A. Chemical stability The product is stable.
- Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.
- B. Conditions to avoid No specific data.
- C. Incompatible materials No specific data.
- D. Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11. Toxicological information

A. Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Eyes.

#### Potential acute health effects

- Respiratory No known significant effects or critical hazards.
- Oral No known significant effects or critical hazards.
- Skin No known significant effects or critical hazards.
- Eyes No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Inhalation No specific data.
- Ingestion No specific data.
- Skin contact No specific data.
- Eye contact No specific data.

B. Health hazards

#### Acute toxicity

Not available.

- Conclusion/Summary Not available.  
[Product]

**Skin corrosion/irritation**

Not available.

**Conclusion/Summary [Product]** Not available.

**Serious eye damage/eye irritation**

Not available.

**Conclusion/Summary [Product]** Not available.

**Respiratory corrosion/irritation**

Not available.

**Conclusion/Summary [Product]** Not available.

**Respiratory or skin sensitization**

Not available.

**Skin**

**Conclusion/Summary [Product]** Not available.

**Respiratory**

**Conclusion/Summary [Product]** Not available.

Not available.

**Germ cell mutagenicity**

Not available.

**Conclusion/Summary [Product]** Not available.

**Carcinogenicity**

Not available.

**Conclusion/Summary [Product]** Not available.

**Reproductive toxicity**

Not available.

**Conclusion/Summary [Product]** Not available.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Potential chronic health effects**

Not available.

**Conclusion/Summary [Product]** Not available.

<b>General</b>	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	No known significant effects or critical hazards.
<b>Mutagenicity</b>	No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

##### **Acute toxicity estimates**

N/A

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### **Section 12. Ecological information**

#### **A. Ecotoxicity**

Not available.

**Conclusion/Summary [Product]** Not available.

#### **B. Persistence/degradability**

Not available.

**Conclusion/Summary [Product]** Not available.

#### **C. Bioaccumulative potential**

Not available.

#### **D. Mobility in soil**

**Soil/Water partition coefficient** Not available.

#### **E. Other adverse effects** No known significant effects or critical hazards.

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### **Section 13. Disposal considerations**

**A. Disposal methods** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**B. Disposal precautions** This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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### **Section 14. Transport information**

#### **UN**

**A. UN number** Not available.  
**B. Proper shipping name** Not available.  
**C. Classes** Not available.  
**D. Packing group** Not available.  
**E. Marine pollutant** No.  
**F. Additional information** -  
Label

#### **IMDG**

**A. UN number** Not available.  
**B. Proper shipping name** Not available.  
**C. Classes** Not available.  
**D. Packing group** Not available.  
**E. Marine pollutant** No.  
**F. Additional information** -

**Label**

**IATA**

- A. UN number Not available.  
B. Proper shipping name Not available.  
C. Classes Not available.  
D. Packing group Not available.  
E. Marine pollutant No.  
F. Additional information -

**Label**

**Special precautions for user** **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** Not available.

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## Section 15. Regulatory information

**A. Regulation according to ISHA**

**ISHA article 117 (Harmful substances prohibited from manufacture)** None of the components are listed.

**ISHA article 118 (Harmful substances requiring permission)** None of the components are listed.

**Exposure Limits of Chemical Substances and Physical Factors**

None of the components have an OEL.

**ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)** None of the components are listed.

**ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)** None of the components are listed.

**ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check-up)** None of the components are listed.

**Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)** None of the components are listed.

**B. Regulation according to Chemicals Control Act**

**Article 11 (TRI)** None of the components are listed.

**Article 18 Prohibited (K-Reach Article 27)** None of the components are listed.

**Article 19 Candidate substances subject to authorization (K-Reach Article 25)** None of the components are listed.

**Article 19 Subject to authorization (K-Reach Article 25)** None of the components are listed.

**Article 20 Toxic Chemicals (K-Reach Article 20)** Not applicable

**Article 20 Restricted (K-Reach Article 27)** None of the components are listed.

**Article 39 (Accident Precaution Chemicals)**

Not listed.

**MoE 2021-51 - Regulations on the quantity of toxic substances, restricted substances, prohibited substances and permitted substances**

Not listed.

**Existing Chemical Substances Subject to Registration**

None of the components are listed.

**C. Dangerous Materials Safety Management Act**

Not applicable.

**D. Wastes regulation**

Dispose of contents and container in accordance with all local, regional, national and international regulations.

**E. Regulation according to other foreign laws**

**Article 2 of Youth Protection Act on Substances Hazardous to Youth** Not applicable.

**International regulations**

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**Inventory list**

**Republic of Korea** All components are listed or exempted.

**United States** All components are active or exempted.

**China** All components are listed or exempted.

**Japan** **Japan inventory (CSCL):** Not determined.  
**Japan inventory (ISHL):** Not determined.

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## Section 16. Other information

**A. References**

**B. First issue date** 30 April 2015

**C. Date of issue/Date of revision** 30 April 2015 / 05 February 2026

**D. Version** 1.02

**Date of printing** 05 February 2026

sds\_author@cytiva.com

**E. Other**

 **Indicates information that has changed from previously issued version.**

**Key to abbreviations**

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

UN = United Nations

**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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