



SIGMA-ALDRICH

Material Safety Data Sheet

Date Printed: 02/20/2003
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Version 1.20

Section 1 - Product and Company Information

| | | | |
|---------------------------|--|------------------|------------------------|
| Product Name | TRYPSIN 10X SOLUTION CELL CULTURE TESTED | | |
| Product Number | T4549 | | |
| Brand | Sigma Chemical | | |
| Company | Sigma-Aldrich | | |
| Street Address | 3050 Spruce Street | | |
| City, State, Zip, Country | SAINT LOUIS, MO 63103 US | | |
| Technical Phone: | 314 771 5765 | Emergency Phone: | 414 273 3850 Ext. 5996 |
| Fax: | 800 325 5052 | | |

Section 2 - Composition/Information on Ingredient

| | | |
|----------------------|---|----------|
| Substance Name | CAS # | SARA 313 |
| TRYPSIN 10X SOLUTION | None | No |
| Formula | | |
| Synonyms | Parenzyme, Parenzymol, Tryptar, Trypure, U-4858 | |

Section 3 - Hazards Identification

Emergency Overview
Harmful.
May cause sensitization by inhalation and skin contact. Irritating to eyes, respiratory system, and skin.

HMIS Rating
Health: 1 Flammability: 0 Reactivity: 0

NFPA Rating
Health: 1 Flammability: 0 Reactivity: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure
In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

Autoignition Temp: N/A

Extinguishing Media
Suitable
Noncombustible. Use extinguishing media appropriate to surrounding fire conditions.

Firefighting
Protective Equipment
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s)
Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s)
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up
Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling
User Exposure
Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage
Suitable
Keep tightly closed. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

Engineering Controls
Mechanical exhaust required. Safety shower and eye bath.

Personal Protective Equipment
Respiratory
Government approved respirator.
Hand
Compatible chemical-resistant gloves.
Eye
Chemical safety goggles.

General Hygiene Measures
Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance
Physical State
Liquid

Molecular Weight: N/A

pH N/A
BP/BP Range N/A
MP/MP Range N/A
Freezing Point N/A
Vapor Pressure N/A
Vapor Density N/A
Saturated Vapor Conc. N/A
SG/Density N/A
Bulk Density N/A
Odor Threshold N/A
Volatile% N/A
VOC Content N/A
Water Content N/A
Solvent Content N/A
Evaporation Rate N/A
Viscosity N/A
Partition Coefficient N/A
Decomposition Temp. N/A
Flash Point °F N/A
Flash Point °C N/A
Explosion Limits N/A

Flammability N/A
Autoignition Temp N/A
Solubility N/A

N/A = not available

Section 10 - Stability and Reactivity

Stability
Stable.
Stable.
Materials to Avoid
Strong oxidizing agents.

Hazardous Decomposition Products
Hazardous Decomposition Products
Nature of decomposition products not known.

Hazardous Polymerization
Hazardous Polymerization
Will not occur.

Section 11 - Toxicological Information

Route of Exposure
Skin Contact
Causes skin irritation.
Skin Absorption
May be harmful if absorbed through the skin.
Eye Contact
Causes eye irritation.
Inhalation
Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion
May be harmful if swallowed.

Sensitization
Sensitization
May cause allergic respiratory and skin reactions

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: YN5075000

Toxicity Data
Oral - Rat: > 5,000 mg/kg (LD50)
Intraperitoneal - Rat: >51 MG/KG (LD50)
Intravenous - Rat: 36 MG/KG (LD50)
Intramuscular - Rat: 200 MG/KG (LD50)
Oral - Mouse: 1,450 mg/kg (LD50)
Intraperitoneal - Mouse: 1100 MG/KG (LD50)
Intravenous - Mouse: 11100 UG/KG (LD50)
Intramuscular - Mouse: 105 MG/KG (LD50)
Intravenous - Rabbit: 2200 UG/KG (LD50)

Chronic Exposure - Mutagen

| <u>Species</u> | <u>Dose</u> | <u>Cell Type</u> | <u>Mutation test</u> |
|----------------|-------------|------------------|----------------------|
| Hamster | 100 PPM | fibroblast | DNA damage |

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
Contact a licensed professional waste disposal service to dispose of this material.
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: None
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA
Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU Additional Classification
Symbol of Danger: Xn
Indication of Danger
Harmful.
Risk Statements R: 42/43 36/37/38
May cause sensitization by inhalation and skin contact. Irritating to eyes, respiratory system, and skin.
Safety Statements S: 26 36
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US Classification and Label Text

Indication of Danger

Harmful.

Risk Statements

May cause sensitization by inhalation and skin contact. Irritating to eyes, respiratory system, and skin.

Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

United States Regulatory Information

SARA Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

Section 16 - Other Information

Disclaimer

Caution: for manufacturing, processing, or repacking.

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2003 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.