

Safety Data Sheet

Hazard Information

Hazard information is provided for compliance with both the UK Chemicals (Hazard Information and Packaging) (CHIP) Regulations and the US Hazard Communication Standard (HCS).

Chemical and Company Identification

Product name	Product code	
DL-Dithiothreitol (DTT)	GR122-5	<i>For research use only.</i>

Supplier

Hoefer, Inc.
84 October Hill Road, Suite 10
Holliston, MA 01746
Phone: 800-227-4750
508-893-8999

Emergency Contact

ChemTel Inc.
800-255-3924 (North America) +1-813-248-0585 (International)
1-300-954-583 (Australia) 0-800-591-6042 (Brazil)
000-800-100-4086 (India) 400-120-0751 (Peoples Republic of China)
800-099-0731 (Mexico)

Composition / Ingredients

Hazard	CAS No.	EC No.	%WT	Molecular Formula	Molecular Weight
DL-Dithiothreitol	3483-12-3	222-468-7	100	C ₄ H ₁₀ O ₂ S ₂	154.25 g/mol

Hazards Identification

WHMIS:

D2B toxic material causing other toxic effects Moderate Eye irritant

GHS Classification:

Skin irritant: Category 2

Eye irritant: Category 2

Acute toxicity: Category 4

Specific target organ toxicity: Single exposure, Category 3

Pictogram:



Signal Word: WARNING

Hazard Statements:

H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Precautionary Statements:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P305+P351+P338: If in eyes: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Potential Health Effects:

Inhalation: May be harmful if inhaled.

Skin: May be harmful if absorbed through skin.

Eyes: Causes eye irritation.

Ingestion: Harmful if swallowed.

First Aid Measures

Eyes: Flush eyes with plenty of water. Consult a physician.

Skin: In case of contact, flush area immediately with water. Get medical aid if irritation persists.

Inhalation: Remove victim to fresh air. If breathing becomes difficult, give oxygen. Consult a physician.

Ingestion: Wash mouth with water. Do NOT induce vomiting. Consult a physician if you feel unwell.

Fire-Fighting Measures

Flammability: Not flammable

Flash Point: 113°C, closed cup

Autoignition Temperature: Not determined.

Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.

Explosion Data: Not available.

Accidental Release Measures

Personal Precautions:

Ventilate the area. Wear appropriate protective equipment.

Avoid contact with skin, eyes and clothing.

Methods for Containment and Clean Up:

If safe to do so, contain further leakage. Sweep and place in a closed container. Dispose according to local regulations.

Handling and Storage

Handling: Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

Storage Conditions: Room temperature. Keep cool and dry.

Exposure Controls/Personal Protection

Exposure limits: None listed by ACGIH, NIOSH or OSHA.

Use adequate ventilation. Avoid dust generation.

Personal Protection: Wear appropriate safety glasses and protective gloves and clothing. Use approved NIOSH respirator.

Engineering Measures: Eye wash stations, ventilation systems, showers

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after handling product.

Physical and Chemical Properties

Appearance: White Powder

Odor: Unpleasant

Odor Threshold: No information found.

Melting Point: 42 ± 2°C

Boiling Point: No information found.

Specific Gravity: No information found.

Vapor Density: No information found.

Vapor Pressure: No information found.

Water Solubility: Soluble in water (10 – 50 g/100 ml)

pH: 4 – 6 at 15.4 g/L

Flammability: No

Flash Point: 113°C, closed cup

Ignition Temperature: No information found.

Autoignition temperature: No information found.

Lower Explosion Limit: No information found.

Upper Explosion Limit: No information found.

Stability and Reactivity

Stability: Stable under normal room temperatures and pressure

Conditions to Avoid: Dust generation

Incompatibility: Strong oxidizing agents, reducing agents

Hazardous Decomposition Products: Fumes of carbon monoxide, carbon dioxide and oxides of sulfur

Hazardous Polymerization: Has not been reported.

Toxicological Properties

Exposure Limits:

LD₅₀/LC₅₀: No data available.

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Mutagenicity: No data available.

Carcinogenicity: Not listed by ACGIH, IARC, NTP or CA

Ecological Information

Ecotoxicity: No information found.

Disposal Considerations

Waste Disposal: Care should be exercised when burning in chemical incinerator as this substance is flammable. Observe all Federal, provincial and local regulations.

Transportation Information

Shipping Information:

US DOT: not regulated

IMDG: not regulated

IATA: not regulated

Regulatory Information

WHMIS: D2B, Toxic material causing other toxic effects.

Moderate eye irritant

This data sheet is based upon information believed to be reliable. The Company makes no statement or warranty as to the accuracy or completeness of the information contained herein which is offered for your consideration, investigation and verification. Any use of the information contained in this data sheet must be determined by the user to be in accordance with appropriate applicable regulations.

Hoefler, Inc.

84 October Hill Road, Suite 10

Holliston, MA 01746

www.hoeferinc.com

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