

SAFETY DATA SHEET

DL-DITHIOTHREITOL

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: 905-466-3832
Chemical Name: DL-Dithiothreitol
Synonym: DTT
Catalog Number: DTT001/DTT002

	CAS #	EC-No.	%
DL-Dithiothreitol	3483-12-3	222-468-7	100

SECTION 4 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.

SECTION 2 HAZARDS IDENTIFICATION

WHMIS:
D2B toxic material causing other toxic effects Moderate Eye irritant

GHS Classification

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/vapours/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

SECTION 3 COMPOSITION/ INGREDIENTS

Molecular formula: C₄H₁₀O₂S₂
Molecular weight: 154.25 g/mol

SECTION 5 FIRE FIGHTING MEASURES

Flammability: not flammable
Flash Point: 113C-closed cup
Autoignition Temperature: not determined
Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.
Explosion Data: Not available

SECTION 6 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.

SECTION 7 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.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:
ACGIH, NIOSH, OSHA, none listed
Use adequate ventilation. Avoid dust generation..
Personal protective Equipment: Wear appropriate safety glasses and protective gloves/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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder
Odor: unpleasant
Odor Threshold: : no information found
Melting Point: 42+/- 2C

SAFETY DATA SHEET

DL-DITHIOTHREITOL

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 (10-50g/100ml)
pH: 4-6 at 15.4 g/L
Flammability: No
Flash point: 113C-closed cup
Ignition temperature: no information found
Autoignition temperature: no information found
Lower explosion limit: no information found
Upper explosion limit: no information found

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable at normal room temperature 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

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

LD50/LC50:
Oral LD50-rat-400mg/kg

Epidemiology: No data available
Teratogenicity: No data available
Reproductive Effects: No data available
Neurotoxicity: No data available
Mutagenicity: No data available
Carcinogenicity: not listed by ACGIH, IARC, NTP, or CA

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:
No information found

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Care should exercised when burning in chemical incinerator.. Observe all Federal, provincial and local regulations.

SECTION 14 TRANSPORT INFORMATION

Shipping Information:

DOT (US):
Not regulated
IMDG
Not regulated
IATA:
Not regulated

SECTION 15 REGULATORY INFORMATION

Canada:
WHMIS:
D2B, Toxic material Causing Other Toxic Effects
Moderate eye irritant

SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz
Date Prepared: Jan 1/2025
Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.
Observe all federal, provincial and state laws concerning health, safety and pollution.