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

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 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 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.

 ${\bf Storage\ Conditions:}\ Room\ temperature.\ Keep\ cool\ and\ dry.$

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

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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

Carcinogencity: 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: Oct 6/2022 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.