IB21040 & IB21045 - DTT



7445 Chavenelle Road Dubuque, IA 52002

Tele: (563) 690-0484 **1**-800-253-4942

E-Mail: <u>info@ibisci.com</u> ■ **Web:** <u>www.ibisci.com</u>

Issuing Date: 10-Feb-1998 Revision Date: 6-July-2018 Rev. 5

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

Product Name: DTT

Product Code: IB21040 & IB21045

Recommend Use: For further manufacturing use only **Uses Advised Against:** Not for human or animal drug use

Company: IBI SCIENTIFIC

7445 Chavenelle Road Dubuque, IA 52002

Emergency Tele. Number: 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703

Company Tele. Number: 1-800-253-4942 / (001) 563-690-0484

E-Mail Address: info@ibisci.com

2. HAZARDOUS IDENTIFICATION

GHS - Classification

OSHA Regulatory Status: This chemical is considered hazardous by the 2012 OSHA Hazard Communication

Standard (29CFR 1910.1200)

Acute Toxicity - Oral:

Skin Corrosion/Irritation:

Serious Eye Damage/Eye Irritation:

Specific Target Organ Toxicity (Single Exposure):

Category 2

Category 2

Category 3

Signal Word: Warning



Appearance: White **Physical State:** Powder

Odor: Thiol odor – Unpleasant Characteristic, Skunk-like

Hazard Statements: H302-Harmful if swallowed H315-Causes skin irritation

H319-Causes serious eye irritation

IB21040 & IB21045 - DTT

Precautionary Statements: P261-Avoid breathing dust/fume/gas/mist/vapors/spray

P264-Wash face, hands, and any exposed skin thoroughly after handling

P270-Do not eat, drink, or smoke when using this product P271-Use only outdoors or in a well-ventilated area

P280-Wear protective gloves/protective clothing/eye protection/face protection

P301+P312-IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell

P301+P330+P331-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P302+P352-IF ON SKIN: Wash with plenty of soap and water

P304+P340-IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing P312-Call a POISON CENTER or doctor if you feel unwell

P321-Specific treatment (see supplemental first aid instructions on this label)

P330-Rinse mouth

P332+P313-If skin irritation occurs: Get medical advice/attention P337+P313-If eye irritation persists: Get medical advice/attention P362-Take off contaminated clothing and wash before reuse

P403+P233-Store in a well-ventilated place. Keep container tightly closed

P405-Store locked up

P501-Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified: Not applicable

Other Information:

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:

EC No.:

EEC No. 222-468-7

REACH Reg. No.:

Not Available

3483-12-3

Weight %:

95 – 100

Classification: -

4. FIRST AID MEASURES

Eve Contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

eyelids. Consult a physician.

Skin Contact: Wash off immediately with soap and plenty of water, removing all contaminated clothes

and shoes.

Inhalation: Move to fresh air. If not breathing, give artificial respiration.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth.

Notes to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammable Properties: Not flammable Flash Point: Not determined

Suitable Extinguishing Media: Dry chemical, CO₂, appropriate foam

Hazardous Combustion Products: Carbon oxides, Sulfur oxides, Hydrogen sulfide gas

Explosion Data

Sensitivity to Mechanical Impact: Not sensitive
Sensitivity to Static Discharge: Not sensitive

IB21040 & IB21045 - DTT

Protective Equip. & Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equiv.) and

full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ensure adequate ventilation, especially in confined areas.

Environmental Precautions: See Section 12 for additional ecological information.

Methods for Containment: Prevent further leakage or spillage, if safe to do so.

Methods for Cleaning Up: Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area

and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practice. Hygroscopic. **Storage:** Keep container tightly closed in a dry, cool, and well-ventilated place. Hygroscopic.

Incompatible Products: Bases, Oxidizing agents, Reducing agents, Alkali metals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Chemical Name: DL-Dithiothreitol - #3483-12-3

ACGIH TLV: OSHA PEL: NIOSH IDLH: -

Engineering Measures: Showers, Eyewash Stations, Ventilation Systems

Personal Protective Equipment

Eye/Face Protection: Avoid contact with eyes. Safety glasses with side-shields.

Skin & Body Protection: Wear protective gloves/clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White

Odor: Thiol odor – Unpleasant Characteristic, Skunk-like

Odor Threshold:No information availableDecomposition Temp. °C:No information availableFreezing Point:No information availableInitial Boiling Point:No information available

Physical State: Powder pH: 4.3

Flash Point: 109°C / 228°F
Autoignition Temp. °C: No data available
Boiling Point/Range: No data available

Melting Point/Range: 42 - 43°C

Flammability Limits (Air): Upper-No data available * Lower-No data available

Explosion LimitsNo information available **Explosive Properties**:
No information available

IB21040 & IB21045 - DTT

Oxidizing Properties: No information available Evaporation Rate: No information available

MMHG @ 37.8°C: No data available Vapor Density: No data available

Specific Gravity: 1.0

Water Solubility:
Solubility in other solvents:
No data available
Partition Coefficient (n-octanol/water):
No data available

Viscosity: No information available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: None under normal processing

Incompatible Products: Bases, Oxidizing agents, Reducing agents, Alkali metals

Conditions to Avoid: Protect from moisture.

Hazardous Decomposition Products: Carbon oxides, Sulfur oxides, Hydrogen sulfide gas

Hazardous Polymerization: Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information:

Inhalation: May cause irritation of respiratory tract

Eye Contact: Irritating to eyes Skin Contact: Irritating to skin

Ingestion: There is no data available for this product

Chemical Name: DL-Dithiothreitol - #3483-12-3

LD50 Oral: -LD50 Dermal: -LC50 Inhalation: -

Information on toxicological effects

Symptoms: No information available.

Delayed and immediate effects as well as chronic effects from short and long term exposure

Sensitization: No information available
Mutagenic Effects: No information available
Carcinogenicity: No information available
Chemical Name: DL-Dithiothreitol - #3483-12-3

ACGIH: IARC: NTP: OSHA: -

Reproductive Toxicity:No information availableSTOT - single exposure:No information availableSTOT - repeated exposure:No information availableChronic Toxicity:No information availableTarget Organ Effects:Central nervous system (CNS)Aspiration Effects:No information available

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

IB21040 & IB21045 - DTT

12. ECOLOGICAL INFORMATION

Ecotoxicity: 100% of mixture consists of component(s) of unknown hazards to aquatic environment

Chemical Name: DL-Dithiothreitol - #3483-12-3

Toxicity to Algee: Toxicity to Fish: Daphnia Magna (Water Flee): -

Persistence and Degradability: No information available **Bioaccumulation/Accumulation:** No information available

Chemical Name: DL-Dithiothreitol - #3483-12-3

Low Pow:

Other Adverse Effects: No information available

13. DISPOSAL CONSIDERATIONS

Water Disposal Method: Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging: Do not re-use empty containers.

Chemical Name: DL-Dithiothreitol - #3483-12-3

RCRA – Halogenated Organic Compunds:

RCRA – P Series Wastes:

RCRA – F Series Wastes:

RCRA – K Series Wastes:

Chemical Name: DL-Dithiothreitol - #3483-12-3

California Hazardous Waste Status:

14. TRANSPORT INFORMATION

IATA

Not regulated

US DOT

Not regulated

15. TOXICOLOGICAL INFORMATION

International Inventories

TSCA: Complies
DSL/NDSL: Complies
EINECS/ELINCS: Complies

ENCS: Does not comply IECSC: Complies

KECL Does not comply

PICCS Complies AICS Complies

Legend:

TSCA: United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS: European Inventory of Existing Commercial Chemical Substances/EU List of Notified

Chemical Substances

ENCS: Japan Existing and New Chemical Substances
IECSC: China Inventory of Existing Chemical Substances
KECL Korean Existing and Evaluated Chemical Substances

PICCS Philippines Inventory of Chemicals and Chemical Substances

AICS Australian Inventory of Chemical Substances

IB21040 & IB21045 - DTT

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain a chemical or chemicals which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part 372

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the

Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name: DL-Dithiothreitol - #3483-12-3

CWA – Reportable Quantities:

CWA – Toxic Pollutants:

CWA – Priority Pollutants:

CWA – Hazardous Substances:

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40CFR 302) or the Superfund Amendments and

Reauthorization Act (SARA) (40CFR 355). There may be specific reporting requirements

at the local, regional, or state level pertaining to releases of this material.

Chemical Name: DL-Dithiothreitol - #3483-12-3

Hazardous Substances RQs: Extremely Hazardous Substances RQs: RQ: -

U.S. State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals.

Chemical Name: DL-Dithiothreitol - #3483-12-3

California Prop. 65:

U.S. Right-to-Know Regulations

Chemical Name: DL-Dithiothreitol - #3483-12-3

New Jersey: Massachusetts: Pennsylvania: -

U.S. EPA Label Information

EPA Pesticide Registration #: Not applicable.

Canada No information available

WHMIS Hazard Class

D2B - Toxic materials



IB21040 & IB21045 - DTT

16. OTHER INFORMATION

Issuing Date:10-Feb-1998Revision Date:6-July-2018

Revision Note: Updated address and logo **Recommended Restrictions:** No information available

Disclaimer: The information provided on this SDS is correct to the best of our knowledge,

information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and

release; and is not to be considered as a warranty or quality specification. The

information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified

in the test.

End of Safety Data Sheet