

## 1: Identification of substance / mixture

### 1. Product Identifier

### Substance

Product Name **DTT**  
Product Code D11000  
CAS Number 3483-12-3  
Other Names D11000  
16568  
IUPAC  
MFCN Number  
EC/EINECS 222-468-7  
REACH Number Index-No

### 2. Relevant identified uses of the substance or mixture and uses advised against

Research and Laboratory Use

### 3. Details of the supplier of the safety data sheet

Melford Laboratories Ltd  
Bildeston Road, Chelworth  
Ipswich  
Suffolk  
IP77LE  
UK

Telephone: 01449 741178  
Fax: 01449 741217  
Email: support@melford.co.uk



### 4. Emergency telephone number

+44(0)1449 741178 -

## 2. Hazards Identification

### 1. Classification of the substance or mixture

H302	Acute Tox. 4	
H315	Skin Irrit. 2	
H319	Eye Irrit. 2	
H335	STOT SE 3	

### 2. Label elements

Signal Word **Warning**



### Hazard Statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

### Precautionary Phrases

P233	Keep container tightly closed.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.

### 3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

## 3. Composition / Information on Ingredients

### 1. Substances

Product Name	Hazards	Concentration
DTT		
CAS Number: 3483-12-3 EC/EINECS: 222-468-7	H302, H315, H319, H335 Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2, STOT SE 3	<=100%

## 4. First Aid Measures

### 1. Description of first aid measures

<i>Skin Contact</i>	P302 + P352: IF ON SKIN: Wash with plenty of soap and water. Wash off with soap and plenty of water. Consult a physician.
<i>Eye Contact</i>	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<i>Ingestion</i>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<i>Inhalation</i>	P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### 2. Most important symptoms and effects

The most important known symptoms and effects are described in section 11

### 3. Indication of any immediate medical attention

Obtain medical attention in the event of any acute or delayed symptoms

## 5. Firefighting measures

### 1. Extinguishing Media

<i>Suitable</i>	Water spray. Carbon dioxide. Polymer foam. Dry chemical powder.
<i>Unsuitable</i>	No data available.

### 2. Special Hazards arising from the substance or mixture

In combustion emits toxic fumes of carbon dioxide / carbon monoxide.  
In combustion emits toxic fumes of sulphur oxides.

### 3. Advice for Fire Fighters

Wear self-contained breathing apparatus.  
Wear protective clothing to prevent contact with skin and eyes.

## 6. Accidental Release Measures

### 1. Personal Precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation or wear NIOSH/MSHA or EN149 approved respirator if exposure limits are exceeded or other symptoms are experienced.

### 2. Environmental Precautions

Do not discharge into drains or rivers.

### 3. Methods & Materials

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

## 7. Handling and Storage

### 1. Personal Precautions

<i>Safe Handling</i>	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed or where risk assessment indicates exhaust ventilation is required.
<i>Protection against explosions and fires</i>	Normal measures for preventive fire protection.

### 2. Conditions for safe storage, including any incompatibilities

<i>Managing Storage Risks</i>	Store cold 2-8° C. Keep container tightly closed.
<i>Storage Controls</i>	No special requirements
<i>Maintaining Integrity</i>	P233: Keep container tightly closed. No special requirements
<i>Other advice</i>	No further information available.

### 3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

## 8. Exposure Controls/Personal Protection

### 1. Control Parameters

No Data Available

### 2. Exposure Controls

<i>General protective and hygiene measures</i>	P280: Wear protective gloves/protective clothing/eye protection/face protection. The standard precautionary measures should be adhered to when handling Wash hands during breaks and at the end of handling the material
<i>Engineering measures</i>	Provide appropriate exhaust ventilation at places where dust is formed or where risk assessment indicates ventilation is required.
<i>Eye / Face Protection</i>	Safety Glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)
<i>Hand protection</i>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it
<i>Respiratory protection</i>	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. Use respiratory protection as indicated through process risk assessments. For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<i>Skin protection</i>	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace
<i>Other personal protection advice</i>	No data available

## 9. Physical and Chemical Properties

### 1. Physical and Chemical Properties

Appearance

White powder

Odour	Unpleasant and characteristic
Odour threshold	No Data Available
PH	4-6 at 15.4g/l at 25°C
Melting point / Freezing point	40-44°C
Initial boiling point and boiling range	No Data Available
Flash point	113°C- closed cup
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	No Data Available
Solubility(ies):	0.05g/l in water- clear, soluble
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

## 2. Other Information

No additional information available

## 10. Stability and Reactivity

### 1. Reactivity

No data available

### 2. Stability

May decompose on exposure to moist air or water.  
 Stable under recommended storage conditions.

### 3. Possibility of Hazardous Reactions

No data available

### 4. Conditions to Avoid

Exposure to moist air and water.

### 5. Incompatible Materials

Bases, Oxidizing agents, Reducing agents, Alkali metals

### 6. Hazardous Decomposition Products

In combustion emits toxic fumes of carbon dioxide / carbon monoxide.  
 In combustion emits toxic fumes of sulphur oxides.

## 11. Toxicology information

### 1. Information

<i>Acute Toxicity</i>	Oral LD50 (rat) 400 mg/kg
<i>Skin corrosion/irritation</i>	No information available
<i>Serious eye Damage/irritation</i>	No information available
<i>Respiratory or skin sensitisation</i>	No information available
<i>Germ Cell mutagenicity</i>	No data available
<i>Carcinogenicity</i>	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

<i>Reproductive toxicity</i>	No data available
<i>STOT-single exposure</i>	No data available
<i>STOT-repeated exposure</i>	No information available
<i>Aspiration hazard</i>	No data available

## 2. Additional

RTECS: EK1610000

Nausea, Headache, Vomiting, Central nervous system depression, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver-Irregularities-Based on Human Evidence

## 12. Ecological Information

### 1. Toxicity

LC50 Daphnia magna 27mg/l - 48h

### 2. Persistence and degradability

No data available

### 3. Bio-Accumulative Potential

No data available

### 4. Mobility and Soil

No data available

### 5. Results of PBT & vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 6. Other adverse effects

No data available

## 13. Disposal Considerations

### 1. Waste Treatment Methods

*Disposal Operations* Hand over to authorised disposal company as hazardous waste.

*Disposal of Packaging* Disposal must be made according to official regulations.  
Dispose of as unused product.

## 14. Transport Information

### Air (ICAO)

- UN Number:** 3335
- Shipping Name:** Aviation regulated solid, n.o.s.
- Transport hazard class(es):** 9 Sub Class :



- Packing group:** III
- Environmental hazards:**
- Special Precautions for user:**
- Transport in bulk:**

### Road (ADR)

- UN Number:** 3335
- Shipping Name:** Aviation regulated solid, N.O.S (DTT).

3. **Transport hazard class(es)** : 9 Sub Class :

4. **Packing group**: N-S

5. **Environmental hazards**:

6. **Special Precautions for user**:

7. **Transport in bulk**:

## Sea (IMDG)

1. **UN Number**: 3335

2. **Shipping Name**: Aviation regulated solid, n.o.s.

3. **Transport hazard class(es)** : 9 Sub Class :



4. **Packing group**:

5. **Environmental hazards**:

6. **Special Precautions for user**:

7. **Transport in bulk**:

## 15. Safety, health, environmental and national regulations

### 1. Safety, health, environmental and national regulations:

Product is not subject to any additional regulations or provisions.

### 2. Safety Assessment

No Chemical Safety Assessment

## 16. Other Information

### 1. Other Information:

This safety data sheet complies to the requirements of Regulation (EC) No. 1907/2006

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO:International Civil Aviation Organization

ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS:Chemical Abstracts Service

### 3. 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 nused in combination with any other material or in any process unless specified in the text