



## CSFC TAIWAN ENTERPRISE CORPORATION

Head Office: 3F, No. 14, Cuizhu North Road, Yangzhong, Jiangsu, China  
Tel: +86-511-88365501 Fax: +86-511-88350971 Post code: 212200  
Homepage: [www.csfchem.com](http://www.csfchem.com)

### MATERIAL SAFETY DATA SHEET CSFC DSTDP

DATE ISSUED: April 12, 2001  
DATE REVISED: April 2, 2009  
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#### SECTION 1 IDENTIFICATION OF THE SUBSTANCE

**Trade name:** CSFC DSTDP  
**Product use:** Antioxidant  
**CAS number:** 693-36-7  
**EINECS number:** 211-750-5

#### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical description:** 3,3'-Thiobis-propionic acid-di-octadecyl ester; Stearyl 3,3'-thiodipropionate; Distearyl beta-thiodipropionate  
**Chemical characterization:** Thioester

#### SECTION 3 HAZARDS IDENTIFICATION

No specific hazards are encountered under normal product use.

#### SECTION 4 FIRST AID MEASURES

**Contact with skin:** Wash with plenty of water and soap.  
**Contact with eyes:** Wash immediately with water for at least 10 minutes.  
**Swallowing:** Get immediate medical device, showing the emergency card. A suspension of activated charcoal in water, or liquid paraffin may be administered.  
**Inhalation:** Ventilate the premises. The patient is to be removed immediately from the contaminated premises and made to rest in a well ventilated area. Should the patient feel unwell, Obtain medical attention.

#### SECTION 5 FIRE-FIGHTING MEASURES

**Fire And Explosion Hazard:** Under fire conditions, toxic and irritating fumes may be emitted. Dust-air mixtures may ignite or explode.  
**Recommended extinguishers:** Water, CO<sub>2</sub>, foam, chemical powders, according to the materials involved in the fire.



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**Flash Point:** Not available

**Auto ignition Point:** 265 °C (509 °F)

**Lower Flammable Limit:** Not available.

**Upper Flammable Limit:** Not available.

**Hazardous Combustion Products:** Thermal decomposition products may include toxic oxides of carbon and oxides of sulfur.

**Extinguishers not to be used:** None in particular. Risks arising from combustion: During combustion the preparation may release toxic gases, like CO, CO<sub>2</sub>, SO<sub>x</sub>. Do not inhale the fumes.

**Protective equipment:** Use protection for the respiratory tract.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

**Measures for personal safety:** Use gloves and protective clothing.

**Environmental measures:** Limit leakages with earth or sand. If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

**Cleaning methods:** If the product is in a liquid form, stop it from entering the drainage system. Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material. After the product has been recovered, rinse the area and materials involved with water, then dispose of the water used.

### SECTION 7 HANDLING AND STORAGE

**Handling precautions:** Avoid contact and inhalation of the vapors. Do not eat or drink while working.

**Storage conditions:** Store at room temperature away from heat sources

**Instructions as regards storage premises:** Adequately ventilated premises.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Precautionary measures:** Give adequate ventilation to the premises where the product is stored and/or handled.

**Respiratory protection:** Not needed for normal use.

**Protection for hands:** Recommended protective gloves (conforming to EN 374).

**Eye protection:** Recommended close fitting safety goggles and/or visor conforming EN 166.

**Protection for skin:** No special precaution must be adopted for normal use.

**Exposure limit(s) (ACGIH):** None



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### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and colour:** White irregular flakes/coarse powder

**Appearance:** White powder

**Molecular Weight:** 683

**Molecular Formula:**  $C_{42}H_{82}O_4S$

**Melting point:** 63-67 °C.

**Boiling point:** N.A..

**Density:** 1.027 g/cm<sup>3</sup>

**Vapour pressure:** 0.15 mm Hg at 162 °C

**Solubility in water:** insoluble

**Partition c. (n-octanol/H<sub>2</sub>O):** >6,2

**pH:** N.A.

**Odor Threshold:** Not available.

**Evaporation Rate:** Not available.

### SECTION 10 STABILITY AND REACTIVITY

**Conditions to avoid:** Stable under normal conditions.

**Substances to avoid:** None in particular.

**Hazardous decomposition products:** None.

### SECTION 11 TOXICOLOGICAL INFORMATION

Set out below is the toxicological information relating to the preparation.

**Acute toxicity:** LD<sub>50</sub> inhalation (rat): >3000 mg/kg

LD<sub>50</sub> oral (mouse): >2000 mg/kg

LD<sub>50</sub> dermal (mouse): >2000 mg/kg

### SECTION 12 ECOLOGICAL INFORMATION

Adopt sound working practices, so that the product is not released into the environment.

### SECTION 13 DISPOSAL CONSIDERATIONS

Recover if possible. In so doing, comply with the local and national regulations currently in force.

### SECTION 14 TRANSPORT INFORMATION

Not a dangerous material under the amended E.E.C. Council Directives



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### SECTION 15 REGULATORY INFORMATION

**SDS in compliance with the following European Directives:** Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Commission Directive 1999/45/CE (Classification, packaging and labelling of dangerous preparation) and subsequent amendments. Commission Directive 2001/58/CE (Safety data sheets). Commission Directive 98/24/CE (Protection of the health and safety of workers from the risk related to chemical agent). Commission Directive 2000/39/CE (Occupational exposure limit values). The substance should not be considered as dangerous according to Directive 67/548/EEC. Where applicable, refer to the following regulatory provisions: Ministerial circulars 46 e 61 (Aromatic amines). Law 136/83 (Biodegradability of detergents). Directive 2003/105/CE ('Activities linked to risks of serious accidents'). Presidential Decree D.P.R. 250/89 (Labelling of detergents).

**Inventory information:**

**EC EINECS:** All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) in compliance with Council Directive 67/548/EEC and its amendments.

**US TSCA :** The components of this product appear in the TSCA list.

**CANADA DSL:** The components of this product are included in the Canada Domestic Substances List (DSL).

### SECTION 16 OTHER INFORMATION

Main bibliographic sources: NIOSH - Registry of toxic effects of chemical substances (1983)

I.N.R.S. - Fiche Toxicologique

ACGIH - Threshold Limit Values - 2004 edition

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