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MATERIAL SAFETY DATA SHEET

SECTION I -CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ANTIOXIDANT DSTDP

Producer/Supplier: **SHANGHAI DEBORN CO., LTD.**

ADD: RM604,NO,233,RUSHAN ROAD,PUDONG, SHANGHAI, CHINA

Tel: 86-021-68962123

Fax: 86-021-68963669

Chemical Name: Distearyl Thiodipropionate

Additional Information : No information available

SECTION II -COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME ;CAS NO.: 693-36-7; %EXPOSURE LIMITS

Distearyl Thiodipropionate

693367 ~100 N (Hazardous)

15 mg/m³ (PNOR) (OSHA PEL TWA)

Not established (OSHA PEL STEL)

Not established (OSHA PEL CEIL)

10 mg/m³ (PNOS) (ACGIH TLV TWA)

Not established (ACGIH TLV STEL)

Not established (ACGIH TLV CEIL)

*Indented chemicals are components of previous ingredient.

Additional Information

5 mg/m³ Respirable Dust Level (OSHA) ;3 mg/m³ Respirable Dust Level (ACGIH)

PNOR = Particulates Not Otherwise Regulated ;PNOS = Particulates Not Otherwise Specified

SECTION III -HAZARDS IDENTIFICATION

Emergency Overview: White flakes. Characteristic sweet odor. Dusts can form an explosive mixture with air.

Relevant Routes of Exposure: Inhalation and ingestion.

Signs and Symptoms of Overexposure: General reddening and irritation to the skin and eyes, mucous membrane irritation, upper respiratory tract irritation. Medical Conditions Generally

Aggravated By Exposure: Dermatitis

Potential Health Effects: See Section XI for additional information.

Eyes: May cause slight eye irritation.

Skin: May cause slight skin irritation.

Ingestion: Not expected to be a hazard in normal industrial use.

Inhalation: As with any dust, mechanical irritation is possible to mucous membranes and the respiratory tract.

SECTION III -HAZARDS IDENTIFICATION

Chronic Health Effects:

Carcinogenicity:

NTP: No

IARC: No

OSHA: No

No information available

None known

ACGIH:

OTHER:

Additional Information No

SECTION IV -FIRSTAID MEASURES

Eyes: Flush with large volumes of water for at least 15 minutes. Get medical attention.

Skin: Wash with large volumes of soap and water for at least 15 minutes. If irritation develops, get medical attention.

Ingestion: If conscious, give person 1 to 2 glasses of water. Get medical attention immediately.

Inhalation: Remove person to fresh air. Get medical attention.

Antidotes: No information available

Notes to Physicians and/or Protection for First-Aiders: No information available

Additional Information: No information available

SECTION V -FIRE FIGHTINGMEASURES

Flammable Limits inAir (% by Volume): Not available

Flash Point: Not available

Autoignition Temperature: 265 degrees C

Extinguishing Media: All conventional media are suitable.

Fire Fighting Instructions: Wear a self-contained breathing apparatus and protective clothing to prevent skin and eye contact in fire situations.

Unusual Fire and Explosion Hazards: Under fire conditions, toxic and irritating fumes may be emitted. Dusts can form an explosive mixture with air.

Flammability Classification: Non-flammable solid

Known or Anticipated Hazardous

Products of Combustion: Oxides of sulfur Carbon monoxide and carbon dioxide

Additional Information :No information available

SECTION VI -ACCIDENTALRELEASE MEASURES

Accidental Release Measures: Shut off all sources of ignition. Wearing appropriate personal protective equipment, carefully sweep up material and place in suitable labeled containers for disposal. Avoid creating a dusting condition.

Personal Precautions: See Section VIII.

Environmental Precautions: No information available

Additional Information :No information available

SECTION VII -HANDLINGAND STORAGE

Avoid eye, skin and clothing contact. Avoid breathing dust. Avoid repeated and prolonged contact. Avoid creating

a dusting situation. Keep away from heat, sparks and flame.

Storage: Store in a cool, dry, well-ventilated area away from incompatible materials. Store away from heat, sparks, and flame. Keep container tightly closed.

Other Precautions: No information available

Additional Information: No information available

SECTION VIII -EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Adequate general ventilation is recommended when handling to control airborne levels.

Ventilation Requirements: Use local exhaust to minimize dusting. Use mechanical ventilation for general area control.

Personal Protective Equipment:

Eye/Face Protection: Chemical safety glasses with side shields or chemical safety goggles

Skin Protection: Rubber or plastic gloves .Clothing designed to minimize skin contact\

Respiratory Protection: Wear a NIOSH/MSHA approved dust respirator if dusting occurs, or there is potential for airborne exposures to exceed established threshold values.

Consult the OSHA respiratory protection information located at 29CFR 1910.134 and the American National Standard Institute's Practices of Respiratory Protection Z88.2.

Other Protective Clothing or Equipment: No information available

Exposure Guidelines: See Section II.

Work Hygienic Practices: Wash thoroughly after handling. Wash contaminated clothing before reuse.

Additional Information :No information available

SECTION IX -PHYSICAL& CHEMICAL PROPERTIES

Appearance: White flakes Percent Volatile: Not available

Boiling Point: Not available pH Value: Not available

Bulk Density: Not available pH Concentration: Not available

Color: White Physical State: Solid

Decomposition Temperature: >250 degrees C Reactivity in Water: Not water reactive

Evaporation Rate: Not available Saturated Vapor

Concentration: Not available

Freezing Point: Not available Softening Point: Not available

Heat Value: Not available Solubility in Water: Insoluble

Melting Point: 63-67 degrees C Specific Gravity or

Density (Water=1): 1.027 at 25 degrees C

Molecular/Chemical Formula: C₄₂H₈₄O₄S Vapor Density: Not available

Molecular Weight: 683 Vapor Pressure: 0.15 mm Hg at 162 degrees C

Octanol/Water Partition Coefficient: Log Pow >6.2 Viscosity: Not available

Odor: Characteristic sweet odor Volatile Organic

Compounds: Not available

SECTION IX -PHYSICAL& CHEMICAL PROPERTIES

Odor Threshold: Not available Water/Oil Distribution

Coefficient: Not available

Particle Size: Not available

Weight Per Gallon: Not available

Additional Information :No information available

SECTION X -STABILITYAND REACTIVITY

Stability: Stable under normal conditions of handling and use.

Conditions to Avoid: Temperature above 250 degrees C

Incompatibility With Other Materials:

Strong oxidizers

Reducing agents

Strong acids

Strong bases

Hazardous Decomposition Products:

Thermal decomposition may produce the following:

Oxides of sulfur

Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur

Conditions to Avoid: None

Additional Information :No information available

SECTION XI -TOXICOLOGICAL INFORMATION

VALUE (LD50 OR LC50) ANIMAL ROUTES COMPONENTS

>3,000 ppm/4H Rat Acute Inhalation 3,3'-Thiobis-propionic acid-dioctadecyl ester

>2 g/kgMouse Acute Intraperitoneal 3,3'-Thiobis-propionic acid-dioctadecyl ester

>2 g/kgMouse Acute Oral 3,3'-Thiobis-propionic acid-dioctadecyl ester

>2 g/kg Rabbit Acute Dermal 3,3'-Thiobis-propionic acid-dioctadecyl ester

>5 g/kg Rat Acute Oral 3,3'-Thiobis-propionic acid-dioctadecyl ester

Toxicological Information:

The toxicological properties of this material have not been fully determined.

Slight irritation of skin and eyes may be possible.

Other acute and chronic health hazards, as well as target organs, are unknown.

As with all dusts, inhalation of air concentration levels above the PNOR may cause irritation and adverse lung effects.

Additional Information :No information available

SECTION XII -ECOLOGICAL INFORMATION

Ecological Information: Avoid releasing to the environment.

Additional Information :No information available

SECTION XIII -DISPOSAL CONSIDERATIONS

Disposal Considerations: Dispose of waste at an approved chemical disposal facility in compliance with all current Local, State/Province, Federal/Canadian laws and regulations.

Additional Information :No information available

SECTION XIV -TRANSPORT INFORMATION U.S. DOT

Proper Shipping Name: Not regulated



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Hazard Class: N/A ID Number: N/A

Packing Group: N/A Labels: N/A

Special Provisions: N/A Packaging Exceptions: N/A

Non-Bulk Packaging: N/A Bulk Packaging: N/A

Passenger Air/Rail Limit: N/A Air Cargo Limit: N/A

Vessel Stowage: N/A Other Stowage: N/A

Reportable Quantity: N/A AIR - ICAO OR IATA

Proper Shipping Name: Not regulated

Hazard Class: N/A ID Number: N/A

Subsidiary Risk: N/A Packing Group: N/A

Hazard Labels: N/A Packing Instructions: N/A

Air Passenger Limit Per Package: N/A Packing Instruction -

Cargo: N/A

Air Cargo Limit Per Package: N/A Special Provisions Code: N/A WATER - IMDG

Proper Shipping Name: Not regulated

Hazard Class: N/A ID Number: N/A

Packing Group: N/A Subsidiary Risk: N/A

Medical First Aid Guide Code: N/A

Additional Information : No information available

SECTION XV -REGULATORY INFORMATION

U.S. Federal Regulations: The components of this product are either on the TSCA Inventory or exempt (i.e. impurities, a polymer complying with the exemption rule at 40 CFR 723.250) from the Inventory.

State Regulations: None known

International Regulations:

This material (or each component) is listed on the following inventories: Canada - DSL

EU - EINECS Australia - AICS Korea - ECL Japan - ENCS Philippines - PICCS

China - List I Canadian WHMIS Hazard Class and Division = Not controlled

SARA Hazards:

Acute: No

Chronic: No

Reactive: No Fire: No

Pressure: No

SECTION XV -REGULATORY INFORMATION

Additional Information The above regulatory information represents only selected regulations and is not meant to be a complete list.

SECTION XVI -OTHER INFORMATION

NFPA Codes:

Health: 1

Flammability: 0



Reactivity: 0 Other: N

HMIS Codes: * indicates chronic health hazard.

Health: 1

Flammability: NR

Reactivity: 0

Protection: X

Label Statements: Not available

Other Information:

Abbreviations:

(L) = Loose bulk density in g/ml

LOEC = Lowest observed effect concentration

MATC = Maximum acceptable toxicant concentration

NA = Not available

N/A = Not applicable

NL = Not limited

NOAEL = No observable adverse effect level

NOEC = No observed effect concentration

NOEL = No observable effect level

NR = Not rated

(P) = Packed bulk density in g/ml

PNOR = Particulates Not Otherwise Regulated

PNOS = Particulates Not Otherwise Specified

REL = Recommended exposure limit

TS = Trade secret

Revision Information: General review and update