

## Material Safety Data Sheet

Date: 19-Sep-2020

### Section 1 IDENTIFICATION

**GHS Product identifier:** Dimethyl Thio-Toluene Diamine

**Trade name:** DMTDA;E300

**Recommended use of the chemical and restrictions on use: /**

It is used as curing agent of PU elastomer. Restrictions on use: Do NOT use it in an application which may contaminate food or do harm to human health.

**Supplier's details:** QINGDAO YLSCH INDUSTRY&TRADE CO.,LTD.

**Emergency phone number:** 0532-82678303

### Section 2 HAZARDS IDENTIFICATION

**GHS classification:**

**Physical hazards:**

Explosives-not classified

Flammable gases-not classified

Flammable aerosols-not

classified Gases under pressure-

not classified Flammable

liquids- not classified

Flammable solids-not classified

Self-reactive substances and mixtures -not

classified Pyrophoric liquids-not classified

Pyrophoric solids-not classified

Self-heating substances and mixtures-not classified

Substances and mixtures, which in contact with water, emit flammable gases-not classified

Oxidizing liquids-not classified

Oxidizing solids-not classified

Organic peroxides-not

classified Corrosive to metals-

not classified

**Health hazards:**

Acute toxicity (oral)- Category 4

Acute toxicity (dermal)- not

classified Acute toxicity (inhalation)- not

classified Skin corrosion/irritation-

not classified Serious eye damage/eye irritation - not

classified Respiratory sensitizer-not

classified Skin sensitizer- Category 1

Germ cell mutagenicity-not

classified Carcinogenicity- not

classified Toxic to reproduction- not classified/ Effects on or via lactation-not classified

STOT SE- not classified

STOT RE- Category 2

Aspiration hazard-not

classified

**Environmental hazards:**

Acute hazards to the aquatic environment-Category

1 Chronic hazards to the aquatic environment-

Category 1 Hazard to the ozone layer-not classified

**GHS Label elements, including precautionary statements:**



**Signal word:** Warning

**Hazard statement(s):**

H302: Harmful if swallowed.

H317: May cause an allergic skin reaction.

H373: May cause damage to organs through prolonged or repeated exposure. H410: Very toxic to aquatic life with long lasting effects.

**Precautionary statement(s):**

P260: Do not breathe dust/fume/gas/mist/vapour/spray.

P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment.

P280: Wear protective gloves/eye protection/face protection.

**Response Precautionary Statements:**

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330: Rinse mouth.

P302+P352: IF ON SKIN: Wash with soap and water.

P321: Specific treatment (see relevant information on this label). P333+P313: If skin irritation or a rash occurs: get medical advice/attention. P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P391: Collect spillage.

**Storage precautionary statements :**

No relevant classification for this product.

**Disposal precautionary statements :**

P501: Dispose of contents/container according to relevant local and national regulations.

**Section 3 COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	EC number	CAS No.	Concentration%
Dimethyl Thio-Toluene Diamine	403-240-8	106264-79-3	≥95%

**Section 4 FIRST AID MEASURES**

**Persons using this product should consult a physician or other medical professional if an accident involving this product results in injury. Specific first-aid measures are as follows:** **Eyes Contact:** Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do—continue rinsing. If eye irritation persists: get medical advice/attention.

**Skin Contact:** Wash with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or a rash occurs: get medical advice/attention.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Ingestion:** Rinse mouth. Do not induce vomiting without doctor's instruction. Immediately call a POISON CENTER or doctor/physician if you feel unwell.

**Acute effect and delayed effect:** Acute effect: Harmful if swallowed. May cause an allergic skin reaction. Delayed effect: May cause damage to organs through prolonged or repeated exposure.

**Personal protective equipment:** Wear protective gloves/protective clothing/eye protection/face protection when necessary.

**Indication of immediate medical attention and treatment needed, if necessary:** Treat according to symptoms.

### **Section 5 FIREFIGHTING MEASURES**

**Extinguishing Media:** Fire foam, water spray, carbon dioxide or dry chemical powder

**Unsuitable Extinguishing Media:** Discharging cylinder shape water from fire hose may lead to spread fire to the surroundings.

**Special hazards arising from the chemical:** The flash point of this product exceeds 93 °C, so it is not classified as flammable liquids. Irritating fume may be released from thermal decomposition.

**Fire Fighting Method:**

Remove all ignition sources.

Deny unnecessary entry to the place around the fire.

Remove containers from fire area if it can be done without risk.

Extinguish fire from upwind, and the fire extinguishing method should be appropriate to the situation in the surroundings.

**Special actions for fire-fighters:** Firefighters must wear self-contained breathing apparatus and full protective equipment. If the colour of the container changes or there is sound from the container, immediately stay away from the container.

### **Section 6 ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures: For non-emergency personnel:**

Wear suitable protective equipment to prevent any contamination of skin, eyes and personal clothing.

Stay in the windward.

**For emergency responders:**

Wear suitable protective equipment to prevent any contamination of skin, eyes and personal clothing. Remove ignition sources and provide of sufficient ventilation.

Evacuate the danger area or consult an expert when necessary.

**Environmental precautions:** Keep cleaning run-offs out of municipal sewers and open bodies of water. Comply with local and national laws and regulations.

**Methods and material for containment and cleaning up: Small Spill:**

Mop up or absorb with an inert dry material (e.g. sand, dry lime) and place in an appropriately labeled waste disposal container.

**Large Spill:**

Isolate contaminated area and set up a warning board. The persons handling emergency are recommended wearing protective clothing. Do NOT touch spilled material. Keep away from heat and sources of ignition.

Build up dike or dig pit for collection. Spray fog water to cool down and dilute vapour. Protect the working staff. Collect the spilled material with explosion-proof pump into an appropriate container and transport the waste to the disposal place.

### **Section 7 HANDLING AND STORAGE**

**Precautions for safe handling:**

Operate in a confined area with good-ventilation.

Workers must wear proper protective equipment and must operate strictly according to relative rules.

Recommend wearing anti-poison respirators (semi-face), safety goggles, impermeable working clothes and anti-oil rubber gloves.

Prevent vapour from releasing into air of working place. Ground/bond container and receiving equipment.

Handle with care to avoid damage of packaging materials or containers.

The storeroom should be equipped with proper facilities for accidental leakage.

**Conditions for safe storage, including any incompatibilities:**

Keep container tightly closed and store in cool and a well-ventilated place. Store away from strong oxidants and isocyanates

**Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Occupational Exposure Limits:**

**Ingredients:**Dimethylthiotoluene diamine **OELs (GBZ 2.1-2007):** No data available **OSHA PEL-TWA :** No data available **ACGIH TLV-TWA :** No data available **Engineering**

**Controls:**

Handle the product only under conditions where sufficient ventilation is provided. Install eye washer and safety shower near handling and storage area.

**Personal Protective Equipment (for workers) :**

**Protection of Hands:**

Wear protective gloves (e.g. rubber gloves, etc.).



**Protection of Eyes:**

Wear chemical safety goggles.

Wear plastic face shield in addition to safety goggles where there is danger of splashing



**Respiratory Protection:** Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms occur. Wear respirators when handling emergency.



**Protection of Body:**

Wear work clothing and foot wear as appropriate.



**General protective and hygienic measures:**



Do not eat, drink or smoke when using this product. Take a shower and change clothes at the end of work. Wash hands before breaks and at the end of work.  
Avoid contact with eyes and skin.

### Section 9 PHYSICAL AND CHEMICAL PROPERTIES

#### General Information

<b>Form</b>	Liquid
<b>Colour</b>	Light yellow
<b>Odour</b>	Slight, amine
<b>pH Value</b>	No data available
<b>Boiling range</b>	No data available
<b>Melting point/Melting range</b>	No data available
<b>Flash Point</b>	176°C
<b>Flammable/Explosive Limits-Lower Vol % available</b>	No data
<b>Flammable/Explosive Limits-Upper Vol % available</b>	data
<b>Relative density (water=1)</b>	1.206
<b>Relative vapour density</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Solubility</b>	Insoluble in water.
<b>n-octanol/Water partition coefficient</b>	No data available
<b>Igniting temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Odour threshold value</b>	No data available
<b>Viscosity</b>	600-900mPa.s (20°C)
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas, etc.)</b>	This product is not classified as flammable liquid.

### Section 10 STABILITY AND REACTIVITY

**Reactivity:** This product is considered to be a non-reactive material under normal and anticipated storage and handling Conditions.

**Chemical stability:** This product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Possibility of hazardous reactions:** No relevant information.

**Conditions to Avoid:** Extremely high temperature.

**Incompatible materials:** No relevant information.

**Hazardous decomposition products:** Irritating fume may be released from thermal decomposition.

### Section 11 TOXICOLOGICAL INFORMATION

#### Product Toxicity Data:

**Ingredient (s) :** Diethyl thio-toluene diamine

**CAS number :** 106264-79-3

**LD 50/LC 50 (Median lethal dose) :** Acute toxicity (Oral) LD50: 1,515mg/kg (rat)  
Acute toxicity (Dermal) LD50 > 2,000mg/kg (rabbit)



**Serious eye damage/eye irritation:** This product is classified as Category 2A-causes serious eyes irritation. This classification is based on KOSHA classification (Korea) and EU classification.

**Skin corrosion/irritation:** No classification for this product. **Respiratory /Skin sensitizer:** No classification for this product. **Germ cell mutagenicity:** No classification for this product.

**Carcinogenicity:** No classification for this product.

**Reproductive Toxicity:** No classification for this product.

**STOT SE/RE:** Single exposure- No classification for this product.  
Repeated exposure-Category 2. This classification is based on KOSHA classification (Korea).

**Aspiration hazard:** No classification for this product.

### Section 12 ECOLOGICAL INFORMATION

Ecotoxicity:

**Fish:**

LC50: 200.777mg/l/96hours (data source: ECOSAR)

**Crustacea:**

EC50: 1.197mg/l/48hours (data source: ECOSAR)

**Microorganisms:**

EC50: 170mg /l/24hours (Pseudomonas putida)

**Persistence and Degradability:**

log Kow 1.36 (data source: QSAR)

**Bioaccumulative Potential:** No data available

**Mobility in Soil:** Due to its liquid status, it can move in soil.

### Section 13 DISPOSAL CONSIDERATIONS

Minimize the hazard of waste by the methods of neutralization and stabilization. Recommend adopting incineration method for waste disposal.

Any disposal practice must be in compliance with country, local, state, and federal laws and regulations. After contents are completely removed, dispose of its container at hazardous or special waste collection point. Paste a label on the container indicating the possible hazards of the waste.

### Section 14 TRANSPORT INFORMATION

**DOT/Air-Transportation- IATA/ICAO/Sea-Transportation-IMO/IMDG:**

**Proper Shipping Name:** Environmentally hazardous substances, liquid (Diethyl thio-toluene diamine)

**Hazard Class:** 9

**UN Code:** UN3082

**Packing Group:** III

**Packing Group Symbol:**



**Marine Pollutant (Yes/No): Yes Note:**

Check whether the package is completed or sealed before transporting; make sure there are no damage and no falling down of packages during transporting; the transport vehicle should be equipped with fire-fighting equipment and emergency facilities for handling with release; do NOT transport this product together with incompatible substances.

**Section 15 REGULATORY INFORMATION**

**Laws and Regulations of China:**

**General rule for classification and hazard communication of chemicals(GB 13690-2009):**

Acute toxicity (oral)- Category 4, Skin sensitizer- Category 1

STOT RE- Category 2, Acute hazards to the aquatic environment-Category 1, Chronic hazards to the aquatic environment-Category 1

**The Principle of Classification of Transport Packaging Groups of Dangerous Goods (GB/T 15098-2008):**

III

**Dangerous Chemicals List (GB 12268-2012):**

UN 3082, hazard class: 9, packing group: III, proper shipping name: Environmentally hazardous substances, liquid, n.o.s

**Production Safety Law of the People's Republic of China:** As for safe production and management, emergency response and legal responsibilities, please refer to specific content specified in this law.

**Occupational Disease Prevention Law of the People's Republic of China:** This product causes slight irritation to eyes. As for prevention during working , management and diagnosis of occupational disease, please refer to specific content specified in this law.

**Environmental Protection Law of the People's Republic of China:** This product is toxic to aquatic life with long lasting effects. Do no release it into waters.

**International Laws and Regulations:**

**TSCA (Toxic Substance Control Act):** This substance is listed in the U.S. Toxic Substances Control Act Chemical Substance Inventory List.

**Clean Water Act:**

This substance is not listed as Hazardous Substances under the CWA. This substance is not listed as Priority Pollutants under the CWA.

67/548/EEC Annex I : R: 22-43-50/53, S: (2-)24-37-60-61

**Carcinogenicity categories:** No relevant classification for this substance.

**Candidate List of Substances of very high concern (SVHC) according to ECHA:** Not listed.

**REACH Regulation Annex XVII Regulation List:** Not listed.

**REACH Regulation Annex XIV Authorization List:** Not listed.

**Section 16 OTHER INFORMATION**

<b>References</b>	GHS Technical Documents (Version 4 <sup>th</sup> and Version 5 <sup>th</sup> ) GHS Annex II GHS SDS Instruction GB 16483-2008 GB 13690-2009 GB/T 17519-2013
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Full description of some acronyms:

GHS-Globally Harmonized System of Classification and Labelling of Chemicals CAS-Chemical Abstracts Service

EINECS-European Inventory of Existing Commercial Chemical Substances ACGIH- American Conference of Governmental Industrial Hygienists

OSHA-Occupational Safety and Health Administration IARC- International Agency for Research on Cancer NTP- The National Toxicology Program

IMO-International Maritime Organization IMDG-International Maritime Dangerous Goods

IATA-International Air Transport Association ICAO-International Civil Aviation Organization

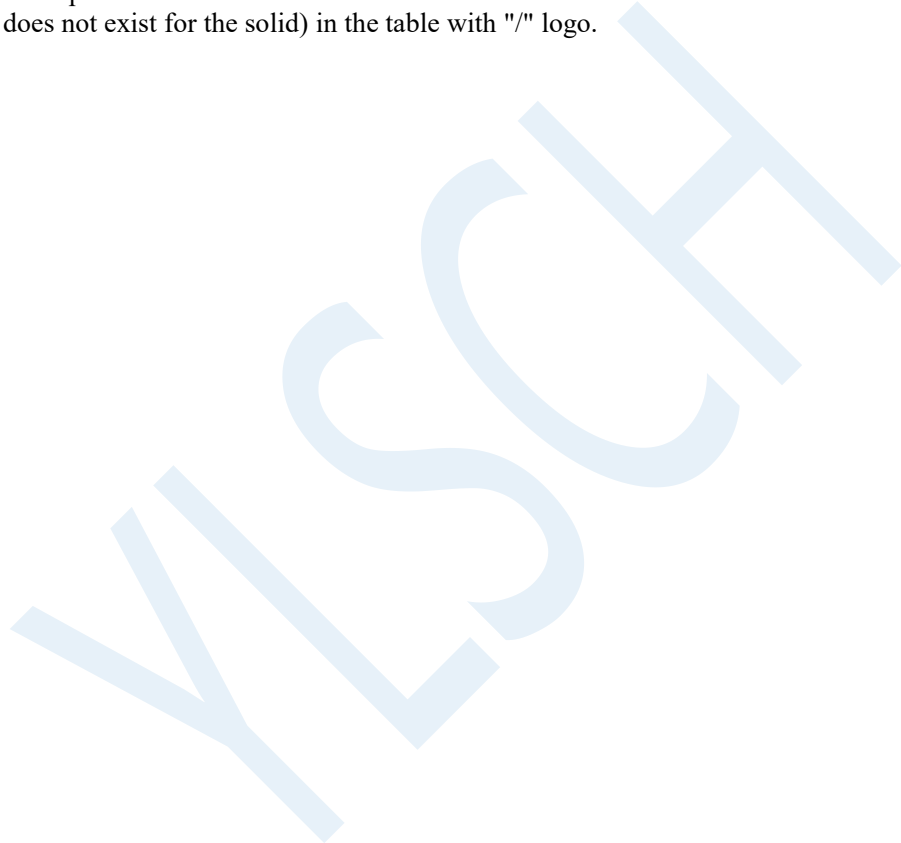
TSCA-Toxic Substance Control Act

<b>Form Date</b>	19-Sep-2020
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Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer / supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3: As a result of product features without the existence of certain information or no data available (such as boiling point does not exist for the solid) in the table with "/" logo.







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