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Safety Data Sheet (SDS)

Revision / Review Date: 6/16/14

**1. Chemical Product and Company Identification**

Product Name:	DPTT Dipentamethylen ethiuram tetrasulfide
Distributed By:	HB Chemical 1665 Enterprise Parkway Twinsburg Oh 44087 Phone - 330-920-8023
MSDS Prepared By (w Suppliers Input):	HB Chemical
Chemical Name / Family:	
CAS number:	120-54-7
Product Use:	Rubber vulcanization accelerator.
OSHA Status	Not Hazardous
REACH registration No.:	Not available.
For emergency health, safety, and environmental information, calls 330-920-8023	
For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300	

**2. Hazard(s) Identification**

Classification:

The substance is classified as following according to 67/548/EEC and REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008

Hazard classes/Hazard categorie	Hazard statement
N/A	N/A
For full text of H- phrases: see section 2.2.	

67/548/EEC

Hazards characteristics	R-Phrases
N/A	N/A

Hazard Pictograms:	No Hazard pictograms is used.
Signal Word(S)	No signal word is used.
Hazard Statement:	Not Applicable.
Other hazards:	Not Available.

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### 3. Composition / Information on Ingredients

Substance/Mixture: Substance

Ingredients:

Chemical Name	Registration No.	CAS Number	EC No.	Concentration
Bis (piperidinothiocarbonyl) tetrasulphide	N/A	120-54-7	204-406-0	97%

### 4. First Aid Measures

In all cases of doubt, or when symptoms persist, seek medical attention.

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Eyes: Rinse immediately with plenty of water for at least 15 minutes. Get medical attention.

Skin: wash off immediately with plenty of soap and water. Seek medical advice in case of skin eruption.

Ingestion: Remove visible material, clean the face with water: lie down quietly and seek medical advice.

Information to physician: The product is not classified as harmful to human health effect. If skin irritation or rash occurs, get medical advice/attention.

### 5. Fire-Fighting Measures

Suitable Extinguishing Media: Use water, dry powder or regular foam to extinguish fires. Product in or near fires should be cooled with a water spray or fog.

Unsuitable Extinguishing Media: Not Available.

Special Fire Fighting Procedures: A self-contained breathing apparatus (SCBA) operating in the positive pressure. Mode and full firefighting protective clothing should be worn for combating fires.

Special hazards arising from the substance: During a fire the product can form sulfur dioxide, nitrogen oxides, dipentylamine and toxic fumes.

### 6. Accidental Release Measures

Steps to be taken in case material is Spilled: Emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.  
Non Emergency: Take up any spilled product with a shovel and place into sealed containers for proper disposal. Individuals involved in the cleanup should wear appropriate personal protective equipment. Unnecessary personnel should be kept clear of the area.

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<u>Environmental Disposal Information:</u>	Do not allow material to be release to the environment without proper governmental permits.
<u>Waste Disposal:</u>	Shovel up spilled product and dispose of waste materials including empty product bags or drums. Keep in suitable, closed containers for disposal. Clean up affected area. Dispose of in accordance with local, state, and federal regulations.
<u>Additional information:</u>	See section 7 for information on safe handling. See section 8 for information on personal protection equipment. See section 13 for information on disposal.

<b><u>7. Handling and Storage:</u></b>	
<u>Handling:</u>	Good housekeeping and engineering practices should be employed to prevent the generation and accumulation of product. Individuals handling this product should wear personal protective equipment specified in Plant environment should include controls and equipment specified. Avoid contact with skin and eyes. Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.
<u>Storage:</u>	Do not store near acids and oxidants or at high temperatures. Store in closed containers in a dry environment. Recommended packaging is cardboard boxes with polyethylene liner.

<b><u>8. Exposure Controls / Personal Protection</u></b>	
<u>Control parameters:</u>	Occupational exposure limits: Not available. Additional exposure limits under the conditions of use: Not available. DNEL/DMEL and PNEC-Values: Not available
<u>Exposure Controls:</u>	Appropriate engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
<u>Respiratory Protection:</u>	Wear dusk mask.
<u>Protective Gloves:</u>	Neoprene or nitrile gloves should be worn to prevent irritation and possible absorption. Cloth gloves are not recommended.
<u>Eye Protection:</u>	Safety glasses with side shields are recommended. An eye wash device should be available in the work area where the product is handled.
<u>Skin and Body Protection:</u>	Wear suitable protective clothing to prevent heat. Wear suitable protective clothing to prevent skin exposure.

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Environmental Exposure Controls:

Avoid discharge into the environment. This material and its container must be disposed of as hazardous waste. According to local regulations, Federal and official regulations.

**9. Physical and Chemical Properties**

<u>Appearance:</u>	Solid
<u>Colour:</u>	Light yellow
<u>Odour:</u>	Not available
<u>Odour threshold:</u>	Not available
<u>pH:</u>	Not available
<u>Melting point/range (°C):</u>	Min. 180°C
<u>Boiling point/range (°C):</u>	Not available
<u>Flash point (°C):</u>	Not available
<u>Evaporation rate:</u>	Not available
<u>Flammability limit - lower (%):</u>	Not available
<u>Flammability (solid, gas):</u>	Non-flammable
<u>Ignition temperature (°C):</u>	Not available
<u>Upper/lower flammability/explosive limits:</u>	Not available
<u>Vapour pressure (20°C):</u>	Not available
<u>Vapour density:</u>	Not available
<u>Relative Density:</u>	Not available
<u>Bulk density (kg/m<sup>3</sup>):</u>	Not available
<u>Water solubility (g/l):</u>	Insoluble
<u>n-Octanol/Water (log Po/w):</u>	Not available
<u>Auto-ignition temperature:</u>	Not available
<u>Decomposition temperature:</u>	Not available
<u>Viscosity, dynamic (mPa.s):</u>	Not available
<u>Explosive properties:</u>	Not explosive
<u>Oxidising properties:</u>	Not oxidising
<u>Molecular Formula:</u>	C12H20N2S6
<u>Molecular Weight:</u>	384.69

Other information:

<u>Fat solubility(solvent– oil to be specified) etc:</u>	Not available
<u>Surface tension:</u>	Not available
<u>Dissociation constant in water( pKa):</u>	Not available
<u>Oxidation-reduction Potential:</u>	Not available
<u>Specific gravity:</u>	Not available

**10. Stability and Reactivity**

<u>Stability:</u>	Stable under recommended storage and handling condition. Stable at room temperature in closed containers under normal storage and handling conditions.
<u>Incompatibility (Materials to Avoid):</u>	Acids and oxidants.

<u>Conditions to Avoid:</u>	Incompatible materials. High temperatures.
<u>Hazardous decomposition products:</u>	Nitrogen oxides, carbon dioxide, sulfur oxides. Risk of formation of nitrosamines with nitroso groups.

### 11. Toxicological Information

<u>Toxicokinetics, metabolism and distribution:</u>	Non-human toxicological data: Not available
<u>Information on toxicological effects:</u>	Acute toxicity: LD50(Oral, Rat): > 2000 mg/kg LD50(Dermal, Rabbit): Not available LC50(Inhalation, Rat): Not available
<u>Skin corrosion/Irritation:</u>	Not classified
<u>Serious eye damage/Irritation:</u>	Not classified
<u>Respiratory or skin sensitization:</u>	Not classified
<u>Germ cell mutagenicity:</u>	Not classified
<u>Carcinogenicity:</u>	Not classified
<u>Reproductive toxicity:</u>	Not classified
<u>STOT- single exposure:</u>	Not classified
<u>STOT-repeated exposure:</u>	Not classified

### 12. Ecological Information

#### Toxicity:

<u>Acute toxicity</u>		<u>Time</u>	<u>Species</u>	<u>Method</u>	<u>Evaluation</u>	<u>Remarks</u>
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
LC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

<u>Persistence and degradability:</u>	Not available.
<u>Bioaccumulative potential:</u>	Not available.
<u>Mobility in soil:</u>	Not available.
<u>Results of PBT&amp;vPvB assessment:</u>	Not available.
<u>Other adverse effects:</u>	Not available.

### 13. Disposal Considerations

<u>Disposal methods of the substance/Mixture:</u>	Avoid discharge into the environment. This material and its Container must be disposed of as hazardous waste. According To local regulations, Federal and official regulations.
<u>Disposal methods of the Contaminated Packaging:</u>	Disposal must be made according to official regulations as the methods of substance/mixture.

### 14. Transport Information

<u>D.O.T. Shipping Name</u>	Not Regulated
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Air - ICAO (international Civil Aviation Organization) Not Regulated

Sea - IMDG (International Maritime Dangerous Goods) Not Regulated

### 15. Regulatory Information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture:

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

Chemical Safety Assessment has been carried out? YES

NO

### 16. Other Information

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.

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