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## MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

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Rubber Accelerator DPTT(TRA)

HS Code: 38121000.00

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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<b>Product label name</b>	Dipentamethylen ethiuram tetrasulfide
<b>Supplier</b>	Qingdao YLSCH Industry&Trade Co.,Ltd Room 501,2-3 Unit. No.8,Zhengzhou Road, Qingdao,China. TEL: +86 18661665800
<b>Emergency telephone</b>	TEL: +86 18661665800
<b>Intended use</b>	Rubber Vulcanization Accelerator

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

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<b>Chemical name</b>	四硫化双五亚甲基秋兰姆 Dipentamethylen ethiuram tetrasulfide
<b>CAS NO.</b>	971-15-3
<b>Chemical description</b>	Yellow granule
<b>TSCA NO.</b>	none
<b>EINECS NO.</b>	none
<b>Other information</b>	C <sub>12</sub> H <sub>2</sub> ON <sub>2</sub> S <sub>8</sub>

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### 3. HAZARDS IDENTIFICATION

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Not classified as hazardous according to the ECC Dangerous Substance Directive and Dangerous Preparation Directive.

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### 4. FIRST AID MEASURES

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<b>Symptoms and effects</b>	No typical symptoms and effects known.
<b>First aid</b>	
<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention.

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<b>Inhalation</b>	Not applicable.
<b>Skin</b>	Wash immediately with plenty of soap and water.
<b>Eye</b>	Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to Ensure thorough rinsing. Seek medical advice if irritation develops.
<b>Ingestion</b>	Rinse mouth, give water to drink.
<b>Advice to physician</b>	No specific recommendations.

## 5. FIRE-FIGHTING MEASURES

<b>Extinguishing media</b>	Waterspray, water mist, foam, dry chemical powder, CO <sub>2</sub>
<b>Unsuitable extinguishing media</b>	Waterjet.
<b>Special firefighting procedures</b>	None known.
<b>Hazardous decomposition/combustion products</b>	Hydrogen cyanide (HCN), sulphur dioxide (SO <sub>2</sub> ), nitrous gases (NO <sub>x</sub> ).
<b>Protective equipment</b>	Wear self contained breathing apparatus.
<b>Other information</b>	Do not allow run-off from fire fighting to enter drains or water courses.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	For personal protection see Section 8. Avoid dust generation.
<b>Environmental precautions</b>	Avoid discharge into the environment. Collect as much as possible in a clean container for
<b>Methods for cleaning up</b>	(preferable) reuse or disposal.

## 7. HANDLING AND STORAGE

<b>Handling</b>	The usual precautions for handling chemicals should be observed.
<b>Fire and explosion prevention</b>	No specific recommendations.
<b>Storage requirements</b>	Store in a dry and cool place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering controls</b>	No specific recommendations.
<b>Exposure limits</b>	
<b>Name:</b> Dipentamethylen ethiuram tetrasulfide	OES-TWA 10.0 mg/m <sup>3</sup> (total inhalable dust)
<b>Personal protection</b>	
<b>Respiratory</b>	No specific recommendations.
<b>Hand</b>	No specific recommendations.
<b>Eye</b>	No specific recommendations.
<b>Skin and body</b>	No specific recommendations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Yellow powder	<b>Colour</b>	Yellow
<b>Odour</b>	----	<b>Boiling point</b>	----
<b>Melting point</b> ≥	110℃	<b>Flash point</b>	----
<b>Flammability</b>	----	<b>Explosion limits</b>	----
<b>Explosive properties</b>		<b>Auto ignition temperature</b>	----
<b>Oxidizing properties</b>	----	<b>Vapour pressure</b>	----
<b>Density</b>	1.45g/cm <sup>3</sup> (20℃)	<b>Bulk density</b>	----
<b>Solubility in water</b>	Insoluble in water	<b>Solubility in other solvents</b>	Acetone,CS <sub>2</sub>
<b>pH value</b>	----	<b>Partition coefficient</b>	----
<b>Residues (150um)% Max</b>	0.1(Max)	<b>Relative vapour density</b>	----
<b>Viscosity</b>	----	<b>Assay content %</b> ≥	95
<b>Strength of grain(N)</b>	0.6-2.5	<b>Oil content %</b>	----

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage and handling conditions (see section 7).
<b>Conditions to avoid</b>	No specific recommendations.
<b>Materials to avoid</b>	No specific recommendations.
<b>Hazardous decomposition products</b>	No hazardous decomposition products known.

## 11. TOXICOLOGICAL INFORMATION

**Name** Dipentamethylen ethiuram tetrasulfide

**Acute toxicity**

**Oral LG50** rat: > 5000 mg/kg.

**Dermal LD50**

**Irritation**

**Skin** Practically non-irritating.

**Eye** Practically non-irritating.

## 12. ECOLOGICAL INFORMATION

No experimental ecological data are available on the preparation as such.

## 13. DISPOSAL CONSIDERATIONS

<b>Product</b>	Avoid discharge into the environment Small quantities: According to local regulations. Large quantities: Consult YLSCH Chemical for special advice.
<b>Contaminated packaging</b>	According to local regulations. Waste code number: Please refer to your specific industry
<b>Other information</b>	in the European Waste Catalogue.

## 14. TRANSPORT INFORMATION

**Land transport (ADR/ RID)**

<b>ADR class</b>	9	<b>RID class</b>	9
<b>ADR/RID packing group</b>	----	<b>Hazard Identification No.</b>	90
<b>Substance Identification No.</b>	3077	<b>UN number</b>	3077
<b>Proper Shipping Name</b>	Environmentally hazard us substance, solid, n.o.s. (Dipentamethylen ethiuram tetrasulfide )		
<b>Sea transport (IMDG-code/ IMO)</b>			

<b>Correct technical name</b>	----	<b>IMDG Class</b>	
<b>UN Number</b>	----	<b>Packaging group</b>	
<b>EMS Number</b>	----		
<b>Air transport (ICAO-TI/ IATA-DGR)</b>			
<b>ICAO-TI/IATA-DGR Class</b>	9	<b>UN number</b>	3077
<b>Packing group</b>	Environmentally hazardous substance, solid, n.o.s.		
<b>Correct technical name</b>	(Dipentamethylen ethiuram tetrasulfide )		

## 15. REGULATORY INFORMATION

<b>Chemical description</b>	Dipentamethylen ethiuram tetrasulfide
<b>Labelling according to EC directives</b>	
<b>EC-number</b>	See section 2
<b>Classification based on</b>	Annex-1 to directive 67/548/EEC
	R 43 May cause sensitization by skin contact
<b>R(isk) phrase(s)</b>	May cause long-term adverse effects in the aquatic environment
	S 24 Avoid contact with skin
	S 37 Wear suitable gloves
	S 60 This material and its container must be disposed of as hazardous waste
<b>S(afety) phrase(s)</b>	S 61 Avoid release to the environment. Refer to special instruction /Safety data sheets
<b>Other information</b>	To be displayed on the label: "EC label".
<b>Wassergefährdungsklasse (WGK)</b>	2 (VwVwS Anhang 3, Nr. 6605)

## 16. OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.