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## MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

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Rubber Accelerator CuDD(CDD)

HS Code:29302000.90

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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<b>Product label name</b>	Copper dimethyl Dithiocarbamate
<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>	二甲基二硫代氨基甲酸铜 Copper dimethyl Dithiocarbamate
<b>CAS NO.</b>	137-29-1
<b>Chemical description</b>	Brown powder
<b>TSCA NO.</b>	none
<b>EINECS NO.</b>	none
<b>Other information</b>	C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> S <sub>4</sub> Cu

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### 3. HAZARDS IDENTIFICATION

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Harmful if inhaled. Dust may cause irregular breathing. May cause slight eye irritation.

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### 4. FIRST AID MEASURES

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<b>Symptoms and effects</b>	Dust may be irritating to the respiratory tract and cause symptoms of bronchitis. Repeated contact may cause skin sensitization.
<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>	Move to fresh air. If symptoms persist, seek medical advice.
<b>Skin</b>	Remove all contaminated clothing immediately. Wash off with plenty of soap and water. Seek medical advice if irritation develops. Launder clothes before reuse.
<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 exposure hazards</b>	Emits toxic fumes under fire conditions.
<b>Hazardous decomposition/combustion products</b>	Carbon monoxide(CO),Sulfur oxides(SO <sub>x</sub> ),Nitrous gases (NO <sub>x</sub> ).
<b>Protective equipment</b>	Wear self contained breathing apparatus. This material may form flammable dust-air mixtures.
<b>Special Remarks on Explosion</b>	Potential for a dust explosion may exist.
<b>Hazards</b>	Dust may be sensitive to static discharge.
<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>	Avoid contact with skin. Avoid dust generation.
<b>Storage requirements</b>	Store in a dry and cool place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering controls</b>	Avoid dust generation. Ensure good ventilation and local exhaustion of the working area.
<b>Exposure limits</b>	US: TWA 5.0 mg/m <sup>3</sup> from OSHA (PEL)

**Name:**Copper dimethyl Dithiocarbamate US: TWA 5STEL: 10 mg/m3 from ACGIH (TLV)**Personal protection****Respiratory**

Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand**

Wear suitable gloves.

**Eye**

Wear safety goggles.

**Skin and body**

Wear suitable protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Brown powder	<b>Colour</b>	Brown
<b>Odour</b>	----	<b>Boiling point</b>	----
<b>Melting point<math>\geq</math></b>	300°C	<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>	1.70-1.78g/cm <sup>3</sup>	<b>Bulk density</b>	----
<b>Solubility in water</b>	Insoluble in water	<b>Solubility in other solvents</b>	----
<b>pH value</b>	----	<b>Partition coefficient</b>	----
<b>Residues (150um)% Max</b>	0.50(Max)	<b>Relative vapour density</b>	----
<b>Insoluble in cyclohexylane%</b>	----	<b>Assay content % <math>\geq</math></b>	96
<b>Strength of grain(N)</b>	----	<b>Copper content % Max</b>	19.0-22.0
<b>Soluble Zinc content <math>\leq</math></b>	----		

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	The product is stable.
<b>Conditions to avoid</b>	Avoid dust generation
<b>Materials to avoid</b>	Reactive with acids.
<b>Special remarks on reactivity</b>	Carbon disulfide can form during combustion temperatures.

**11. TOXICOLOGICAL INFORMATION**

<b>Name</b>	Copper dimethyl Dithiocarbamate
<b>Acute toxicity</b>	
<b>Oral LD50</b>	rat : > 5000mg/kg
<b>Dermal LD50</b>	rabbit : > 2000 mg/kg
<b>LC50</b>	rat: 0.12mg/14 hours
<b>Irritation</b>	

**Skin**

Slightly irritating to skin but not sufficient for classification.

**Eye**

Slightly irritating to eyes but not sufficient for classification.

## 12. ECOLOGICAL INFORMATION

<b>Name</b>	Copper dimethyl Dithiocarbamate
<b>Degradation Biotic</b>	Not readily biodegradable.
<b>BOD and COD</b>	Not available.
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Biodegradability</b>	Not available.

## 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

Environmentally hazard us substance, solid, n.o.s.

**Proper Shipping Name** (Copper dimethyl Dithiocarbamate)

### Sea transport (IMDG-code/ IMO)

<b>Correct technical name</b>	----	<b>IMDG Class</b>	
<b>UN Number</b>		<b>Packaging group</b>	
<b>EMS Number</b>	----		

### Air transport (ICAO-TI/ IATA-DGR)

<b>ICAO-TI/IATA-DGR Class</b>	9	<b>UN number</b>	3077
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**Packing group** Environmentally hazardous substance, solid, n.o.s.

**Correct technical name** (Copper dimethyl Dithiocarbamate)

## 15.REGULATORY INFORMATION

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<b>Chemical description</b>	Copper dimethyl Dithiocarbamate
<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
<b>R(isk) phrase(s)</b>	R 43 May cause sensitization by skin contact May cause long-term adverse effects in the aquatic environment.
<b>S(afety) phrase(s)</b>	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>Other information</b>	S 61 Avoid release to the environment. Refer to special instruction /Safety data sheets
<b>Wassergefährdungsklasse (WGK)</b>	To be displayed on the label: "EC label".

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## 16.OTHER INFORMATION

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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.

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