

MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

Rubber Accelerator CuDD(CDD)

HS Code:29302000.90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name	Copper dimethyl Dithiocarbamate
Supplier	Qingdao YLSCH Industry&Trade Co.,Ltd Room 501,2-3 Unit. No.8,Zhengzhou Road, Qingdao,China. TEL: +86 18661665800
Emergency telephone	TEL: +86 18661665800
Intended use	Rubber Vulcanization Accelerator

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	二甲基二硫代氨基甲酸铜 Copper dimethyl Dithiocarbamate
CAS NO.	137-29-1
Chemical description	Brown granule
TSCA NO.	none
EINECS NO.	none
Other information	$C_6H_{12}N_2S_4Cu$

3. HAZARDS IDENTIFICATION

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

4. FIRST AID MEASURES

Symptoms and effects	Dust may be irritating to the respiratory tract and cause symptoms of bronchitis. Repeated contact may cause skin sensitization.
First aid	
General	In all cases of doubt, or when symptoms persist, seek medical attention.

Inhalation	Move to fresh air. If symptoms persist, seek medical advice.
Skin	Remove all contaminated clothing immediately. Wash off with plenty of soap and water. Seek medical advice if irritation develops. Launder clothes before reuse.
Eye	Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to Ensure thorough rinsing. Seek medical advice if irritation develops.
Ingestion	Rinse mouth, give water to drink.
Advice to physician	No specific recommendations.

5. FIRE-FIGHTING MEASURES

Extinguishing media	Waterspray, water mist, foam, dry chemical powder, CO ₂
Unsuitable extinguishing media	Waterjet
Special exposure hazards	
Hazardous decomposition/combustion products	Carbon monoxide(CO),Sulfur oxides(SO _x),Nitrous gases (NO _x).
Protective equipment	Wear self contained breathing apparatus. This material may form flammable dust-air mixtures.
Special Remarks on Explosion	Potential for a dust explosion may exist.
Hazards	Dust may be sensitive to static discharge.
Other information	Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

Handling	Avoid contact with skin. Avoid dust generation.
Storage requirements	Store in a dry and cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



Engineering controls	Avoid dust generation. Ensure good ventilation and local exhaustion of the working area.
Exposure limits	US: TWA 5.0 mg/m ³ from OSHA (PEL)
Name: Copper dimethyl Dithiocarbamate	US: TWA 5STEL: 10 mg/m ³ 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

Appearance	Brown granule	Colour	Brown
Odour	----	Boiling point	----
Melting point ≥	300℃	Flash point	----
Flammability	----	Explosion limits	----
Explosive properties		Auto ignition temperature	----
Oxidizing properties	----	Vapour pressure	----
Density	1.70-1.78g/cm ³	Bulk density	----
Solubility in water	Insoluble in water	Solubility in other solvents	----
pH value	----	Partition coefficient	----
Residues (150um)% Max	0.50(Max)	Relative vapour density	----
Insoluble in cyclohexylane%	----	Assay content % ≥	95
Strength of grain(N)	0.6-2.5	Copper content % Max	19.0-22.0
Soluble Zinc content ≤	----	Oil content %	----

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Name	Copper dimethyl Dithiocarbamate
Acute toxicity	

Oral LD50	rat : > 5000mg/kg
Dermal LD50	rabbit : > 2000 mg/kg
LC50	rat: 0.12mg/14 hours
Irritation	
Skin	Slightly irritating to skin but not sufficient for classification.
Eye	Slightly irritating to eyes but not sufficient for classification.

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

Land transport (ADR/ RID)

ADR class	9	RID class	9
ADR/RID packing group	----	Hazard Identification No.	90
Substance Identification No.	3077	UN number	3077

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

Proper Shipping Name (Copper dimethyl Dithiocarbamate)

Sea transport (IMDG-code/ IMO)

Correct technical name	----	IMDG Class	
UN Number		Packaging group	



EMS Number	----		
Air transport (ICAO-TI/ IATA-DGR)			
ICAO-TI/IATA-DGR Class	9	UN number	3077
Packing group	Environmentally hazardous substance, solid, n.o.s.		
Correct technical name	(Copper dimethyl Dithiocarbamate)		

15.REGULATORY INFORMATION

Chemical description	Copper dimethyl Dithiocarbamate
Labelling according to EC directives	
EC-number	See section 2
Classification based on	Annex-1 to directive 67/548/EEC
R(isk) phrase(s)	R 43 May cause sensitization by skin contact May cause long-term adverse effects in the aquatic environment.
S(afety) phrase(s)	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
Other information	S 61 Avoid release to the environment. Refer to special instruction /Safety data sheets
Wassergefährdungsklasse (WGK)	To be displayed on the label: "EC label".

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.
