

Room 501,2-3 Unit No.8,Zhengzhou Road,Qingdao,China. TEL: <u>86 18661665800</u> Email: <u>Dana@ylsch-rbb.com</u> Website: <u>www.ylsch-rbb.com</u>

MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

Rubber Accelerator ZEPC(PX) HS Code: 29302000.90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name Zinc N-ethyl-dithiocarbamate

Qingdao YLSCH Industry&Trade Co.,Ltd

Supplier 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

乙基苯基二硫代氨基甲酸锌

Zinc N-ethyl-dithiocarbamate

CAS NO. 14634-93-6

Chemical description White powder

TSCA NO. none

EINECS NO. none

Other information $C_{18}H_{20}N_2S_4Zn$

3. HAZARDS IDENTIFICATION

Repeated contact may cause skin sensitization. Very toxic to aquatic organisms, May cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Chemical name

Dust may be irritating to the respiratory tract and cause symptoms of

Symptoms and effects bronchitis.

Repeated contact may cause skin sensitization.

First aid

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



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

Remove all contaminated clothing immediately. Wash off with plenty of

Skin 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.

IngestionRinse mouth, give water to drink.Advice to physicianNo specific recommendations.

5. FIRE-FIGHTING MEASURES

Extinguishing media Waterspray, water mist, foam, dry chemical powder, CO₂

Unsuitable extinguishing media Waterjet.

Special exposure hazardsEmits toxic fumes under fire conditions.

Hazardous decomposition/ Combustion products

Carbon monoxide (CO), Sulfur oxides (SO_x), nitrous gases (NO_x).

Protective equipmentWear self contained breathing apparatus.

Other information Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

For personal protection see Section 8. Avoid dust

Personal precautions generation.

Environmental precautionsAvoid 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

Name: Zinc N-ethyl-dithiocarbamate OES-TWA 5.0 mg/m3

Personal protection



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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	White powder	Colour	White
Odour	Odorless	Boiling point	
Melting point≽	200℃	Flash point	
Flammability		Explosion limits	
Explosive properties		Auto ignition temperature	
Oxidizing properties		Vapour pressure	
Density	1.50g/cm3	Bulk density	
Solubility in water	Insoluble in water	Solubility in other solvents	Alcohol,Benzene
pH value		Partition coefficient	
Residues (150um)% Max	0.1(Max)	Relative vapour density	
Viscosity		Assay content % ≽	96
Insoluble in methanol%		Zinc content %	13-15

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions

Stability (see section 7).

Conditions to avoidNo specific recommendationsMaterials to avoidOxidizing agents. strong acid.

Hazardous decomposition productsNo hazardous decomposition products know.

11. TOXICOLOGICAL INFORMATION

Name Zinc N-ethyl-dithiocarbamate

Acute toxicity

Oral LG50 rat: 2590-3530 mg/kg.

rabbit: 570 mg/kg.

Dermal LD50 rabbit: >3160 mg/kg.

rat: >2000 mg/kg.

Irritation

Skin Practically non-irritating.

Eye Severely irritating.



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12. ECOLOGICAL INFORMATION

Name	Zinc N-ethyl-dithiocarbamate	
Ecotoxicity		
Fish	96h-LC50 (Oncorhynchus mykiss): 0.23 mg/l.	
	96h-LC50 ((Lepomis macrochirus): 0.40 mg/l.	
	96h-LC50 (Pimephales promelas): 0.26 mg/l.	
Daphnia	48h-EC50 (Daphnia magna): 0.24-0.44 mg/l.	
Algae	96h-IC50 (Chlorella pyrenoidosa)::1.1 mg/l.	
Degradation Biotic	Not readily biodegradable.	

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	Accordingto localregulations.	
	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	(Zinc N-ethyl-dithiocarbamate)			
Sea transport (IMDG-code/ IMO)				
Correct technical name		IMDG Class		
UN Number				
		Packaging group		
EMS Number				
Air transport (ICAO-TI/ IATA-DGF	R)			
ICAO-TI/IATA-DGR Class	9	UN number	3077	
Packing group	Environmentally hazardous substance, solid, n.o.s.			
Correct technical name	(Zinc N-ethyl-dithiocarbamate)			



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15. REGULATORY INFORMATION

Chemical description Zinc N-ethyl-dithiocarbamate

Labelling according to EC directives

EC-number See section 2

Classification based on Annex-1 to directive 67/548/EEC

R 43 May cause sensitization by skin contact

R(isk) phrase(s) 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

S(afety) phrase(s) as hazardous waste

S 61 Avoid release to the environment. Refer to special

instruction /Safety data sheets

Other information To be displayed on the label: "EC label".

Wassergefährdungsklasse (WGK) 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.