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MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

Rubber Accelerator ZDEC(EZ) HS Code: 38121000.00

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name Zinc diethyl 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

二乙基二硫代氨基甲酸锌

Chemical name Zinc diethyl dithiocarbamate

CAS NO. 14324-55-1

Chemical description White granule

TSCA NO. none

EINECS NO. none

 $\textbf{Other information} \hspace{1cm} C_{10}H_{20}N_2S_4Zn$

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

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.

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.



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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 hazards Emits toxic fumes under fire conditions.

Hazardous decomposition/ combustion products

Carbon monoxide(CO), sulfur oxides (SOx), nitrous gases

(NOx).

Protective equipment Wear self contained breathing apparatus.

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.

The usual precautions for handling chemicals should be observed.

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 diethyl dithiocarbamate OES-TWA 5.0 mg/m3



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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	White granule	Colour	White
Odour	Odorless	Boiling point	
Melting point≽	172 ℃	Flash point	
Flammability		Explosion limits	
Explosive properties		Auto ignition temperature	
Oxidizing properties		Vapour pressure	
Density	1.41g/cm³ (20°C)	Bulk density	
Solubility in water	Insoluble in water	Solubility in other solvents	CS ₂ ,benzene
pH value		Partition coefficient	
Residues (150um)% Max	0.1(Max)	Relative vapour density	
Viscosity		Assay content % ≥	95
Strength of grain(N)	0.6-2.5	Zinc content %	
Soluble Zinc content ≤		Oil content %	

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions

(see section 7).

Conditions to avoid Heating > 100 °C: May catch fire.

Materials to avoid No specific recommendations.

Hazardous decomposition products: carbon monoxide (CO), nitrous gases (NOx), Sulfur oxides (SOx).

11. TOXICOLOGICAL INFORMATION

Name Zinc diethyl dithiocarbamate.

Acute toxicity

Oral LD50 rat: 700 mg/kg



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Dermal LD50 rabbit: 400 mg/kg

Irritation

Skin May cause allergic skin reaction.

Eye Severely irritating.

12. ECOLOGICAL INFORMATION

Name Zinc diethyl dithiocarbamate

Ecotoxicity

Fish 96h-LC50 (Oncorhynchus mykiss): 0.49 mg/l.

Daphnia 48h-EC50 (Daphnia magna): 0.24 mg/l.

96h-IC50 (Chlorella pyrenoidosa): 1.1 mg/l.

Degradation BioticNot 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 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 (Zinc diethyl dithiocarbamate)

Sea transport (IMDG-code/ IMO)



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IMDG Class 9 Correct technical name **UN Number**

Packaging group

EMS Number F-A,S-F

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 (Zinc diethyl dithiocarbamate)

15. REGULATORY INFORMATION

Chemical description Zinc diethyl dithiocarbamate

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Labelling according to EC directives

EC-number See section 2

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





Symbol(s) (EU classification) HARMFUL (Xn) DANGEROUS FOR THE ENVIRONMENT (N)

R43 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)

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.