

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 ETU(NA-22) HS Code: 29332900.90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name Ethylene thiourea

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

乙撑硫脲(2-硫醇基咪唑啉)

Ethylene thiourea

CAS NO. 96-45-7

Chemical description White granule

TSCA NO. None precautionary

EINECS NO. none

Other information C₃H₆N₂S

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.



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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

Special firefighting procedures Wear self-contained breathing apparatus and protective

clothing to prevent contact with skin and eyes.

Unusual fire and explosions hazards Emits toxic fumes under fire conditions.

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

water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear disposable coveralls and discard them after use.

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.

Fire and explosion prevention No specific recommendations.

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: Ethylene thiourea 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.

HandWear suitable gloves.EyeWear safety goggles.

Skin and bodyWear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White granule	Colour	White
Odour		Boiling point	
Melting point≽	195℃	Flash point	
Flammability		Explosion limits	
Explosive properties		Auto ignition temperature	
Oxidizing properties		Vapour pressure	
Density	2.0g/cm3	Bulk density	
Solubility in water	Aetner,chloroform	Solubility in other solvents	Insolubility water, ethanol,glycol
pH value		Partition coefficient	
Residues (150um)% Max		Relative vapour density	
Viscosity		Assay content % ≽	95
Strength of grain(N)	0.6-2.5	Zinc content %	

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions

Stability (see section 7).

Conditions to avoid No specific recommendations.

Materials to avoid Strong oxidizing agents.

Hazardous decomposition products Thermal decomposition products: carbon monoxide (CO),
Carbon dioxide (CO2).

11. TOXICOLOGICAL INFORMATION

Name Ethylene thiourea

Acute toxicity

Oral LG50 rat: > 1832 mg/kg.

Dermal LD50 rabbit:7940 mg/kg.



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Irritation

Skin Slightly irritating to skin but not sufficient for classification.

Eye Slightly irritating to eyes but no

Slightly irritating to eyes but not sufficient for classification

12. ECOLOGICAL INFORMATION

Data not yet abailable.

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) 9 **RID class ADR class** 9 90 ADR/RID packing group Hazard Identification No. 3077 Substance Identification No. 3077 **UN** number Environmentally hazard us substance, solid, n.o.s. **Proper Shipping Name** (Ethylene thiourea) 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 (Ethylene thiourea)



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15. REGULATORY INFORMATION

Chemical description Ethylene thiourea

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.