

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 CBS (CZ) HS Code: 29342000.90

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name N-Cyclohexyl-2-benzothiazolesulfenamide

Qingdao YLSCH Industry&Trade Co.,Ltd

**Supplier** Room 501,2-3 Unit. No.8,Zhengzhou Road,

Qingdao,China.

TEL: +86 18661665800

Emergency telephone +86 18661665800

Intended use Rubber Vulcanization Accelerator

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name N-Cyclohexyl-2-benzothiazolesulfenamide

**CAS NO.** 95-33-0

Chemical description Gray white powder

TSCA NO. none EINECS NO. none

Other information  $C_{13}H_{16}N_2S_2$ 

#### 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.

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, CO2

Unsuitable extinguishing media Waterjet.

Special exposure hazards Emits toxic fumes under fire conditions.

Hazardous decomposition/ **Combustion products** 

Carbon monoxide (CO), Sulfur oxides (SO<sub>x</sub>), nitrous gases (NO<sub>x</sub>).

**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

For personal protection see Section 8. Avoid dust

**Personal precautions** 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

Avoid contact with skin. Avoid dust generation. Handling

Take precautionary measures against static discharges.

Dust/air mixtures may ignite violently upon exposure to

sparks or sources of ignition.

Dust explosion class (VDI 2263): St 2.

Fire and explosion prevention Kst: 169 - 237 bar.m/s.

Maximum corrected explosion pressure: 7.3 - 8.2 bar.

Storage requirements Store in a dry and cool place.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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Engineering controls

Avoid dust generation. Ensure good ventilation and local exhaustion of the working area.

**Exposure limits** 

Name: N-Cyclohexylbenzothiazole-2-sulfenamide OES-TWA 5.0 mg/m3

**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	Gray white powder	Colour	Gray white
Odour	Slightly bitter	Boiling point	
Melting point≽	96℃	Flash point	177℃
Flammability		Explosion limits	
Explosive properties		Auto ignition temperature	
Oxidizing properties		Vapour pressure	
Density	1.28g/cm3 (25°C)	Bulk density	
Solubility in water	Insoluble in water	Solubility in other solvents	In most organic solvents
pH value		Partition coefficient	
Residues (150um)% Max	0.1(Max)	Relative vapour density	
Viscosity		Assay content % ≥	96
Strength of grain(N)			

### 10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions

Stability (see section 7).

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

Materials to avoid No specific recommendations

Thermal decomposition products: carbon monoxide (CO), Hazardous decomposition products

nitrous gases (NOx), Sulfur oxides (SOx).

#### 11. TOXICOLOGICAL INFORMATION

Name N-Cyclohexylbenzothiazole-2-sulfenamide

**Acute toxicity** 

Oral LG50 rat:5300 mg/kg.



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**Dermal LD50** rabbit:7940 mg/kg.

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	N-Cyclohexylbenzothiazole-2-sulfenamide	
Ecotoxicity		
	96h-LC50 (Lepomis macrochirus): 1.2 mg/l.	
Fish	96h-LC50 (Oncorhynchus mykiss): 1.6 mg/l.	
	96h-LC50 (Pimephales promelas): 21 mg/l.	
Daphnia	48h-EC50 (Daphnia magna): >100 mg/l.	
Algae	96h-IC50 (Selenastrum capricornutum): 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	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.

Substance Identification No. 3077 UN number 3077

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

Proper Shipping Name (N-cyclohexyl-2-benzozhiazole sulfenamide)

Sea transport (IMDG-code/ IMO)



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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 (N-cyclohexyl-2-benzozhiazole sulfenamide)

### **15.TRANSPORT INFORMATION**

Chemical description N-cyclohexyl-2-benzozhiazole sulfenamide

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

May cause long-term adverse effects in the aquatic

environment

R(isk) phrase(s) R51/53 Toxic to aquatic organisms,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.