

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-环己基-2-苯并噻唑次磺酰胺
	N-Cyclohexyl-2-benzothiazolesulfenamide
CAS NO.	95-33-0
Chemical description	Gray white granule
TSCA NO.	none
EINECS NO.	none
Other information	C ₁₃ H ₁₆ N ₂ S 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.

. 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 _x), nitrous gases (NO _x).
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

Fire and explosion prevention Storage requirements	Kst: 169 - 237 bar.m/s. Maximum corrected explosion pressure: 7.3 - 8.2 bar. Store in a dry and cool place.
	Dust explosion class (VDI 2263): St 2.
	sparks or sources of ignition.
	Dust/air mixtures may ignite violently upon exposure to
Handling	Avoid contact with skin. Avoid dust generation. Take precautionary measures against static discharges.

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.
Еуе	Wear safety goggles.
Skin and body	Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Gray-white granule	Colour	Gray-white
Odour	Slightly bitter	Boiling point	
Melting point≥	96 °C	Flash point	177 ℃
Flammability		Explosion limits	
Explosive properties		Auto ignition temperature	
Oxidizing properties		Vapour pressure	
Density	1.28g/cm³ (25℃)	Bulk density	
Solubility in water	Insoluble in water	Solubility in other solvents	In most organic solvents
pH value		Partition coefficient	
Residues (150um)% Max		Relative vapour density	
Viscosity		Assay content % ≽	95
Strength of grain(N)	0.6-2.5		

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



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11. TOXICOLOGICAL INFORMATION

Name	N-Cyclohexylbenzothiazole-2-sulfenamide	
Acute toxicity		
Oral LG50	rat:5300 mg/kg.	
Dermal LD50	rabbit:7940 mg/kg.	
Irritation		
Skin	Slightly irritating to skin but not sufficient for classification.	
Еуе	Slightly irritating to eyes but not sufficient for classification.	

12. ECOLOGICAL INFORMATION

Name	N-Cyclohexylbenzothiazole-2-sulfenamide	
Ecotoxicity		
	96h-LC50 (Lepomis macrochirus): 7.9 mg/l.	
Fish	96 <mark>h-LC50 (Oncorhynchus mykiss): 5.4 mg/l.</mark>	
	96h-LC50 (Pimephales promelas):: >1000 mg/l.	
Daphnia	48h-EC50 (Daphnia magna): 18mg/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	Accordingto local regulations.
	Waste code number: Please refer to your specific industry
Other information	in the European Waste Catalogue.



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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	(N-cyclohexyl-2-benzozhiazole sulfenamide)			
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	(N-cyclohexyl-2-benzozhiazole sulfenamide)			
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15. REGULATORY 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)



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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.