

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 NOBS (MBS)

HS Code: 29342000.90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name	N-Oxydiethylene-2-benzothiazole sulfonamide
Supplier	Qingdao YLSCH Industry&Trade Co.,Ltd 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-氧化二乙烯-2-苯并噻唑磺酰胺
Chemical name	N-Oxydiethylene-2-benzothiazole sulfonamide
CAS NO.	102-77-2
Chemical description	Light yellow granule
TSCA NO.	none
EINECS NO.	none
Other information	$C_{11}H_{12}N_2S_2O$

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 _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

Handling	Avoid contact with skin. Avoid dust generation.
	Dust/air mixtures may ignite violently upon exposure to
	sparks or sources of ignition.
	Kst: 169 bar.m/s.
Fire and explosion prevention	Maximum corrected explosion pressure: 8.1 bar.
Storage requirements	Store in a dry and cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Avoid dust generation Ensure good ventilation and local

Skin and body	Wear suitable protective clothing.
Eye	Wear safety goggles.
Hand	Wear suitable gloves.
Respiratory	Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment.
Personal protection	
Name: N-Oxydiethylene-2-benzothiazole sulfonamide	OES-TWA:5.0 mg/m3
Exposure limits	
Engineering controls	exhaustion of the working area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light yellow granule	Colour	Light-yellow
Odour		Boiling point	
Melting point≥	80 °C	Flash point	Approx. 176 ℃
Flammability		Explosion limits	
Explosive properties	Dust explosion hazard	Auto ignition temperature	380℃
Oxidizing properties		Vapour pressure	
Density	1.36 g/cm3(20℃)	Bulk density	
Solubility in water	Insoluble in water	Solubility in other solvents	In most organic solvents
pH value		Partition coefficient	Log Pow=3.49 (25°C)
Residues (150um)% Max	0.1(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 > 130 °C: May catch fire.
Materials to avoid	Nitrosating agents
Hazardous decomposition products	Thermal decomposition products: carbon monoxide (CO), nitrous gases (NOx), Sulfur oxides (SOx).MORPHOLINE (Harmful by inhalation, in contact with skin and if swallowed, Corrosive)

11. TOXICOLOGICAL INFORMATION



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Acute toxicity	
Oral LG50	rat:>7940 mg/kg.
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-Oxydiethylene-2-benzothiazole sulfonamide
Ecotoxicity	
	96h-LC50 (Lepomis macrochirus): 4.4 mg/l.
Fish	96h-LC50 (Oncorhynchus mykiss): 1.3 mg/l.
	96h-LC50 (Pimephales promelas): 3.5mg/l.
Daphnia	48h-EC50 (Daphnia magna): 4.0 mg/l.
Algae	96h-IC50 (Selenastrum capricornutum): 2.0mg/l.
Degradation Abiotic	Hydrolysis: 100% (7 days)
Other information	48h-LC50 (Midge): 5.3 mg/l

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	(N-Oxydiethylene-2-benzothiazole sulfonamide)		



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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-Oxydiethylene-2-benzothiazole sulfonamide)		

15. REGULATORY INFORMATION

Chemical description	N-Oxydiethylene-2-benzothiazole sulfonamide		
Labelling according to EC directives			
EC-number	See section 2		
	R 43 May cause sensitization by skin contact		
R(isk) phrase(s)	R 50/53 Very toxic to aquatic organisms, may cause		
	long-term adverse effects in the aquatic environment		
	S 24 Avoid contact with skin		
S(afety) phrase(s)	S 37 Wear suitable gloves		
	S 60 This material and its container must be disposed of		
	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. 6608)		

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.