

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 MBTS (DM)

HS Code: 29342000.90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name	2,2'-dibenzothiazyl disulfide
Supplier	Qingdao YLSCH Industry&Trade Co.,Ltd Room 501,2-3 Unit. No.8,Zhengzhou Road, Qingdao,China.
Emergency telephone	TEL: +86 18661665800 TEL: +86 18661665800
Intended use	Rubber Vulcanization Accelerator

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	2,2'-二硫代二苯并噻唑 2,2'-dibenzothiazyl disulfide
CAS NO.	120-78-5
Chemical description	Gray-white powder
TSCA NO.	none
EINECS NO.	none
Other information	$C_{14}H_8N_2S_4$

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, CO ₂
Unsuitable extinguishing media	None known
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	
Andling	Avoid contact with skin. Avoid dust generation.
0	The usual precautions for handling chemicals should be observed.
Fire and explosion prevention	No specific recommendations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Avoid dust generation.Ensure good ventilation and local exhaustion of the working area.
Exposure limits	
Name: 2,2'-dibenzothiazyl disulfide	OES-TWA 5.0 mg/m3



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Gray white powder	Colour	Gray white
Odour		Boiling point	
Melting point ≥	166.0 ℃	Flash point	
Flammability		Explosion limits	
Explosive properties		Auto ignition temperature	
Oxidizing properties		Vapour pressure	
Density	1.54g/cm3 (20°C)	Bulk density	
Solubility in water	Insoluble in water	Solubility in other solvents	Soluble in Benzene,CS ₂
Oil content %	1.0-2.0	Partition coefficient	4.5
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
Hazardous decomposition products	Thermal decomposition products: carbon monoxide (CO),
	nitrous gases (NOx), Sulfur oxides (SOx).

11. TOXICOLOGICAL INFORMATION

Name	2,2'-dibenzothiazyl disulfide
Acute toxicity	
Oral LG50	rat:7940 mg/kg.
Dermal LD50	rabbit:7940 mg/kg.
Irritation	



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Skin Eye Slightly irritating to skin but not sufficient for classification. Slightly irritating to eyes but not sufficient for classification.

12. ECOLOGICAL INFORMATION

Name	2,2'-dibenzothiazyl disulfide
Ecotoxicity	
	96h-LC50 (Lepomis macrochirus): 82 mg/l.
Fish	96h-LC50 (Oncorhynchus mykiss): 68 mg/l.
	96h-LC50 (Pimephales promelas): $>$ 1000 mg/l.
Daphnia	48h-EC50 (Daphnia magna): 82mg/l.
Algae	96h-IC50 (Selenastrum capricornutum): 0.7 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.	90
Substance Identification No.	3077	UN number	3077
	Environmentally hazard us substance, solid, n.o.s.		
Proper Shipping Name	(2,2-dibenzothiazyl disulfide)		
Sea transport (IMDG-code/ IMO)			
Correct technical name		IMDG Class	
UN Number			
		Packaging group	
EMS Number			
Air transport (ICAO-TI/ IATA-DGF	R)		



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ICAO-TI/IATA-DGR Class	9	UN number	3077	
Packing group	Environmer	Environmentally hazardous substance, solid, n.o.s.		
Correct technical name	(2,2-dibenz	othiazyl disulfide)		

15. REGULATORY INFORMATION

Chemical description	2,2-dibenzothiazyl disulfide		
Labelling according to EC directives			
EC-number	See section 2		
	Annex-1 to directive 67/548/EEC		
Classification based on	R 43 May cause sensitization by skin contact		
	May cause long-term adverse effects in the aquatic		
	environment		
R(isk) phrase(s)	S 24 Avoid contact with skin		
	S 37 Wear suitable gloves		
	S 60 This material and its container must be disposed of		
	as hazardous waste		
S(afety) phrase(s)	S 61 Avoid release to the environment. Refer to special		
	instruction /Safety data sheets		
Other information	To be displayed on the label: "EC label".		
	2 (VwVwS Anhang 4 Nr. 3)		

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.