

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 TBBS (NS)

HS Code: 29342000.90

# **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product label name	N-tert-butyl-2-benzothiazolyl sulfonamide	
	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-叔丁基-2-苯并噻唑次磺酰胺
	N-tert-butyl-2-benzothiazolyl sulfonamide
CAS NO.	95-31-8
Chemical description	White powder
TSCA NO.	none
EINECS NO.	none
Other information	C <sub>11</sub> H <sub>14</sub> N <sub>2</sub> S <sub>2</sub>

#### 3. HAZARDS IDENTIFICATION

Repeated contact may cause skin sensitization. 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	

Handling	Avoid contact with skin. Avoid dust generation.	
	Dust/air mixtures may ignite violently upon exposure to	
	sparks or sources of ignition.	
	Kst: 171- 273 bar.m/s.	
Fire and explosion prevention	Maximum corrected explosion pressure: 7.9 - 8.5 bar.	
	Kst: 171 - 273 bar.m/s.	
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-tert-butyl-2-benzothiazolyl sulfonamide	W EL (TW A): 4 mg/m <sup>3</sup> OES-TWA:10.0 mg/m3	
Exposure limits		
Engineering controls	exhaustion of the working area.	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White granule	Colour	White
Odour		Boiling point	
Melting point≥	<b>105</b> ℃	Flash point	Approx. 165℃
Flammability		Explosion limits	Min10-20g/m <sup>3</sup>
Explosive properties		Auto ignition temperature	Approx.340-380℃
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	4.38
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 > 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**



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Oral LG50	rat:6310 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-tert-butyl-2-benzothiazolyl sulfonamide
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.
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 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.		UN number	3077
	Environmentally hazard us substance, solid, n.o.s.		
Proper Shipping Name	N-tert-butyl-2-benzothiazolyl sulfonamide		
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-DGF	R)		
ICAO-TI/IATA-DGR Class	9	UN number	3077
Packing group	Environmentally h	Environmentally hazardous substance, solid, n.o.s.	
Correct technical name	N-tert-butyl-2-ben	N-tert-butyl-2-benzothiazolyl sulfonamide	

## **15. REGULATORY INFORMATION**

Chemical description	N-tert-butyl-2-benzothiazolyl sulfonamide		
Labelling according to EC directives			
EC-number	See section 2		
	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)	1 (VwVwS Anhang 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.