

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

N-叔丁基-2-苯并噻唑次磺酰胺 Chemical name

N-tert-butyl-2-benzothiazolyl sulfonamide

CAS NO. 95-31-8

Chemical description White powder

TSCA NO. none

EINECS NO. none

Other information $C_{11}H_{14}N_2S_2$

3. HAZARDS IDENTIFICATION

May cause sensitization by skin contact. 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.



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>

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.

No specific recommendations.

5. FIRE-FIGHTING MEASURES

Advice to physician

Extinguishing media	Waterspray, water mist, foam, dry chemical powder, CO ₂
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

Storage requirements	Store in a dry and cool place.
	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.
	sparks or sources of ignition.
	Dust/air mixtures may ignite violently upon exposure to
Handling	Avoid contact with skin. Avoid dust generation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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>

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

Exposure limits

Name: N-tert-butyl-2-benzothiazolyl sulfonamide WEL (TWA): 4 mg/m³ OES-TWA:10.0 mg/m³

Personal protection

Respiratory

Avoid breathing dust. In case of insufficient ventilation, wear

suitable respiratory equipment.

HandWear suitable gloves.EyeWear safety goggles.

Skin and bodyWear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White powder	Colour	White
Odour		Boiling point	
Melting point≽	105℃	Flash point	Approx. 165°C
Flammability		Explosion limits	Min10-20g/m³
Explosive properties		Auto ignition temperature	Approx.340-380°C
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	4.38
Residues (150um)% Max	0.1(Max)	Relative vapour density	
Viscosity		Assay content % ≽	96
Insoluble in methanol%	0.50		

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions
(see section 7).
Heating > 100 °C: May catch fire.
No specific recommendations
Thermal decomposition products: carbon monoxide (CO),
nitrous gases (NOx), Sulfur oxides (SOx).

11. TOXICOLOGICAL INFORMATION

Name



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>

Acute toxicity

Oral LG50 rat:6310 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-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 WasteCatalogue.

14. TRANSPORT INFORMATION

Land transport (ADR/ RID)

ADR class 9 RID class 9

ADR/RID packing group ---- Hazard Identification No.

Substance Identification No. UN number 3077

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

Proper Shipping Name N-tert-butyl-2-benzothiazolyl sulfonamide



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>

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-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.