



**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
Supplier	Meyors Chemical INC Limited Flat/ RM 301-302, Lucky Building. 39 Willington Street. Central Hong Kong RM 2610-2611 Foreign Trade Building, Zhong Xing Road Shen Zhen. China TEL: +86-755-82184166 FAX:+86-755-82187033
Emergency telephone	+86-755-82190130
Intended use	Rubber Vulcanization accelerator

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

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	Formula: 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.  
Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

**4. FIRST AID MEASURES**

Symptoms and effects	Dust may be irritating to the respiratory tract and cause symptoms of bronchitis. Repeated contact may cause skin sensitization.
First aid	
General	In all cases of doubt, or when symptoms persist, seek medical attention.
Inhalation	Move to fresh air. If symptoms persist, seek medical advice.
Skin	Remove all contaminated clothing immediately. Wash off with plenty of 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**

<b>Extinguishing media</b>	waterspray, water mist, foam, dry chemical powder, CO <sub>2</sub>
<b>Unsuitable extinguishing media</b>	waterjet.
<b>Special exposure hazards</b>	Emits toxic fumes under fire conditions.
<b>Hazardous decomposition/ combustion products</b>	Carbon monoxide (CO).
<b>Protective equipment</b>	Wear self contained breathing apparatus.
<b>Other information</b>	Do not allow run-off from fire fighting to enter drains or water courses.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	For personal protection see Section 8. Avoid dust generation.
<b>Environmental precautions</b>	Avoid discharge into the environment.
<b>Methods for cleaning up</b>	Collect as much as possible in a clean container for (preferable) reuse or disposal.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Avoid contact with skin. Avoid dust generation.  Dust/air mixtures may ignite violently upon exposure to sparks or sources of ignition.
<b>Fire and explosion prevention</b>	.Kst: 171- 273 bar.m/s. Maximum corrected explosion pressure: 7.9 - 8.5 bar.
<b>Storage requirements</b>	Store in a dry and cool place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Engineering controls</b>	Avoid dust generation. Ensure good ventilation and local exhaustion of the working area.
<b>Exposure limits</b>	
<b>Personal protection</b>	
<b>Respiratory</b>	Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Hand</b>	Wear suitable gloves.
<b>Eye</b>	Wear safety goggles.
<b>Skin and body</b>	Wear suitable protective clothing.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	white powder	<b>Color</b>	white
<b>Odor</b>	--	<b>Boiling point</b>	Not application
<b>Melting point</b>	105.0	<b>Flash point</b>	- approx. 165 °C
<b>Flammability</b>	not determined	<b>Explosion limits</b>	Min 10 - 20 g/m <sup>3</sup>
<b>Explosive properties</b>	not determined	<b>Auto ignition temperature</b>	Approx. 340 - 380 °C
<b>Oxidizing properties</b>	not applicable	<b>Vapor pressure</b>	-
<b>Density</b>	1.29g/cm <sup>3</sup> (25 )	<b>Bulk density</b>	-
<b>Solubility in water</b>	Insoluble in water	<b>Solubility in other solvents</b>	in most organic solvents
<b>pH value</b>	not applicable	<b>Partition coefficient</b>	4.38
<b>Residues(150um)%</b>	0.10	<b>Relative vapour density</b>	not applicable

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage and handling conditions (see section 7).
<b>Conditions to avoid</b>	No specific recommendations.
<b>Materials to avoid</b>	Strong oxidizing agent, strong acids, strong bases..
<b>Hazardous decomposition products</b>	Thermal decomposition products: carbon monoxide (CO),

## 11. TOXICOLOGICAL INFORMATION

<b>Name</b>	N-tert-butyl-2-benzothiazolyl sulfonamide
<b>Acute toxicity</b>	
<b>Oral LD50</b>	Rats: 6310 mg/kg.
<b>Dermal LD50</b>	Rabbits: > 7940 mg/kg.
<b>Irritation</b>	
<b>Skin</b>	Slightly irritating to skin but not sufficient for classification.
<b>Eye</b>	Slightly irritating to skin but not sufficient for classification.

## 12. ECOLOGICAL INFORMATION

<b>Name</b>	N-tert-butyl-2-benzothiazolyl sulfonamide
<b>Ecotoxicity</b>	
<b>fish</b>	96h-LC50 (Lepomis macrochirus): 1.2 mg/l. 96h-LC50 (Oncorhynchus mykiss): 1.6 mg/l.



96h-LC50 (Pimephales promelas): 21 mg/l.

daphnia	48h-EC50 (Daphnia magna): > 100 mg/l.
algae	-
Fate	--
Degradation Biotic	Not readily biodegradable.

### 13. DISPOSAL CONSIDERATIONS

Product	Avoid discharge into the environment. Small quantities: According to local regulations. Large quantities: Consult Meyors Chemical for special advice.
Contaminated packaging	According to local regulations.
Other information	Waste code number: Please refer to your specific industry in the European Waste Catalogue.

### 14. TRANSPORT INFORMATION

#### Land transport (ADR/ RID)

ADR class	9	RID class	9
ADR/RID packing group	III	Hazard Identification No.	90
Substance Identification No.	3077	UN number	3077

Proper Shipping Name  
Environmentally hazardous substance, solid, n.o.s.  
(N-tert-butyl-2-benzothiazolyl sulfonamide)

#### Sea transport (IMDG-code/ IMO)

Correct technical name	----	IMDG Class	none
UN Number	Not relevant	Packaging group	Environmentally hazardous substance, Solid
EMS Number	Not relevant		----

#### Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR Class	not restricted	UN number	3077
------------------------	----------------	-----------	------

Packing group  
Environmentally hazardous substance, Solid

Correct technical name  
Environmentally hazardous substance, solid, n.o.s.  
(N-tert-butyl-2-benzothiazolyl sulfonamide)

### 15. REGULATORY INFORMATION

Chemical description	N-tert-butyl-2-benzothiazolyl sulfonamide
----------------------	---



**Labeling according to EC directives**

<b>EC-number</b>	See section 2
<b>Classification based on</b>	Annex-1 to directive 67/548/EEC
<b>R(isk) phrase(s)</b>	R 43 May cause sensitization by skin contact May cause long-term adverse effects in the aquatic environment
<b>Safety phrase(s)</b>	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 61 Avoid release to the environment. Refer to special instructions/Safety data sheets
<b>Other information</b>	To be displayed on the label: "EC label".

---

**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.

---