

# Qureacc<sup>®</sup> TBBS

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Manufacturer Yasho Industries Limited Plot No. 1713, Phase III, GIDC, VAPI -396195 Gujarat, India	Emergency Contact Chemtrec: 1-800-424-9300 (USA) (1)330-542-8400 (outside USA)
Trade Name(s): TBBS, BBTS	Chemical Name: Tert-butyl-benzothiazole sulfenamide
Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.	Application of the substance/the preparation: Rubber compounding.
Issued By: Sovereign Chemical Company  According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS	Date of Issue: March 24, 2023

## 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture  
 Information in accordance with US 29 CFR 1910.1200 (Hazcom 2012) and Regulation (EC) No 1272/2008



GHS07  
 Skin Sens. 1

H317 May cause an allergic skin reaction.

2.2 Label elements

Hazard pictograms



GHS07

Signal word: Warning

Hazard Statements

H317 May cause an allergic skin reaction.

Precautionary statements

P280 Wear protective gloves and eye protection.

P273 Avoid release to the environment.

P261 Avoid breathing dust.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P501 Dispose of contents/container to in accordance with local /regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 Substances

Chemical Name	CAS No	EC No	Weight %	Classification
Tert-butyl benzothiazole sulfenamide	95-31-8	202-409-1	≥99%	Skin Sens. 1B, H317

The remaining unspecified ingredients are impurities and are not hazardous.

**4. FIRST AID MEASURES**

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation

Supply fresh air; consult a doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

In case of irregular breathing or respiratory arrest, provide artificial respiration.

After skin contact

Brush off loose particles from skin.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Gastric or intestinal disorders.

Allergic reactions.

Slight irritant effect on skin and mucous membranes.

Slight irritant effect on eyes.

Hazards: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Medical supervision for at least 48 hours.

If necessary, oxygen respiration treatment.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

Contains N-Tert-Butylbenzothiazole-2-sulphenamide. May produce an allergic reaction.

## 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing agents

CO<sub>2</sub>, powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons, unsuitable extinguishing agents: None.

5.2 Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire.

### 5.3 Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device.

Wear a fully protective suit.

Additional information: No further relevant information available.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment, and emergency procedures

Use respiratory protective devices against the effects of fumes/dust/aerosol.

Avoid formation of dust.

Wear protective equipment. Keep unprotected people away.

Ensure adequate ventilation.

### 6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

### 6.3 Methods and material for containment and cleaning up

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Any unavoidable deposit of dust must be regularly removed.

Information about fire and explosion protection: Dust can combine with air to form an explosive mixture.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles: Protect from humidity and water.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions: Store receptacle in a well-ventilated area.

7.3 Specific end use(s): No further relevant information available.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

DNELs: No further relevant information available.

PNECs: No further relevant information available.

Additional information: The lists valid during the making were used as basis.

### 8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases/fumes/aerosols.

Avoid contact with the eyes and skin.

Respiratory protection

For spills, respiratory protection may be advisable.

NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

Protection of hands



Protective gloves

The glove material must be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact breakthrough time must be found out by the manufacturer of the protective gloves and must be observed.

For the permanent contact gloves made of the following materials are suitable

Butyl rubber, BR

Neoprene gloves

Eye protection



Safety glasses

Body protection: Protective work clothing.

Limitation and supervision of exposure to the environment: No further relevant information available.

Risk management measures

See Section 7 for additional information.

No further relevant information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance Form: Solid. Color: Off white to cream.	Change in Condition Melting Point/Melting Range: 104-113 °C Boiling Point/Boiling Range: Undetermined.
Odor: Characteristic.	Octanol/Water Partition Coefficient: Not determined.
Odor threshold: Not determined.	pH Value: Not applicable.
Vapor pressure: Not applicable.	Flash point: Not determined.
Density at 20 °C: Not determined.	Flammability (solid, gaseous): Product is not flammable.
Relative density: Not determined.	Ignition temperature: Not determined.
Vapor density: Not applicable.	Decomposition temperature: Not determined.
Evaporation rate: Not applicable.	Self-igniting: Not determined.
Solubility in / Miscibility with water: Insoluble.	Danger of explosion: Product does not present an explosion hazard.
Viscosity Dynamic: Not applicable. Kinematic: Not applicable.	Explosion limits Lower: Not determined. Upper: Not determined.

9.2 Other information: No further relevant information available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

### 10.2 Chemical stability

Thermal decomposition/conditions to be avoided: No decomposition if used and stored according to specifications.

### 10.3 Possibility of hazardous reactions

Reacts with strong acids and oxidizing agents.

Reacts with inorganic acid chlorides.

Reacts with strong alkali.

Risk of dust explosion if enriched with fine dust in the presence of air.

Toxic fumes may be released if heated above the decomposition point.

### 10.4 Conditions to avoid

Moisture

Keep away from heat and direct sunlight.

10.5 Incompatible materials: No further relevant information available.

### 10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide

Nitrogen oxides

Sulfur oxides (SO<sub>x</sub>)

Irritant gases/vapors.

**11. TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects

Acute toxicity

	Effect dose /concentration	Species	Method
Acute oral toxicity	>6310 mg/kg bw	Rat	Standard acute method
Acute dermal toxicity	>7940 mg/kg bw	Rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

Primary irritant effect

On the skin: Nonirritant

On the eye: Nonirritant

Sensitization: Sensitization possible through skin contact.

Germ Cell Mutagenicity: No adverse effects

Carcinogenicity: No adverse effects

Reproductive Toxicity: No adverse effects

Repeated Dose Toxicity: No adverse effects

**12. ECOLOGICAL INFORMATION**

12.1 Toxicity

Aquatic toxicity: Not classified as Aquatic toxic.

12.2 Persistence and degradability: Not readily biodegradable

12.3 Bio-accumulative potential: No data available

12.4 Mobility in soil: No data available

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

**13. DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods

Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

After prior treatment, product must be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

Un-cleaned packaging

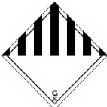

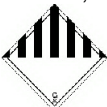

Recommendation: Disposal must be made according to official regulations.

**14. TRANSPORTATION INFORMATION**

14.1 UN-Number

DOT, TDG

Not regulated

ADR, IMDG, IATA	UN3077
14.2 UN proper shipping name:	
DOT, TDG	Not regulated
ADR	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S (N-Tert-butylbenzothiazole-2-sulphenamide)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., MARINE POLLUTANT (N-Tert-butylbenzothiazole-2-sulphenamide)
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (N-Tert-butylbenzothiazole-2-sulphenamide),
14.3 Transport hazard class(es)	
DOT, TDG	Not regulated
ADR	
	
Class	9 (M7) Miscellaneous dangerous substances and articles.
Label	9
IMDG, IATA	
	
Class	9 Miscellaneous dangerous substances and articles.
Label	9
14.4 Packing group	
DOT, TDG	Not regulated
ADR, IMDG, IATA	III
14.5 Environmental hazards	
Marine pollutant	Yes
Special Marking (ADR)	Symbol (fish and tree)
Special Marking (IATA)	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Danger code (Kemler)	90
EMS Number	F-A, S-F.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
Transport/Additional information	
ADR	
Limited quantities (LQ)	5 kg
Transport category	3
Tunnel restriction code	E
UN "Model Regulation"	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (N-Tert-butylbenzothiazole-2-sulphenamide) 9, III

15. REGULATORY INFORMATION

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture United States (USA)

SARA Section 355 (extremely hazardous substances)	Substance is not listed.
SARA Section 313 (Specific toxic chemical listings)	Substance is not listed.
TSCA (Toxic Substances Control Act)	Substance is listed.
Proposition 65 (California)	
Chemicals known to cause cancer	Substance is not listed.
Chemicals known to cause reproductive toxicity for females	Substance is not listed.
Chemicals known to cause reproductive toxicity for males	Substance is not listed.
Chemicals known to cause developmental toxicity	Substance is not listed.
Carcinogenic Categories	
EPA (Environmental Protection Agency)	Substance is not listed.
IARC (International Agency for Research on Cancer)	Substance is not listed.
TLV (Threshold Limit Value established by ACGIH)	Substance is not listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)	Substance is not listed.
OSHA-Ca (Occupational Safety & Health Administration)	Substance is not listed.
Canada	
Canadian Domestic Substances List (DSL)	Substance is listed.
Canadian Ingredient Disclosure list (limit 0.1%)	Substance is not listed.
Canadian Ingredient Disclosure list (limit 1%)	Substance is not listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.