

WESTERN RESERVE CHEMICAL

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MATERIAL SAFETY DATA SHEET

TBBS

CAS #

95-31-8

1. Product Identifications

Product Name: TBBS
Chemical Name: N-tert-butyl-benzothiazole sulfenamide
Formula: $C_{11}H_{14}N_2S_2$

2. Physical Description/Properties

Specific Gravity: 1.28 typical
Melting Point (C° Min): 104
Bulk Density (g/cm³): NA
Diameter of Pellet (mm): NA
PH Value NA
Appearance: Off white or powder or pellet
Odor: Slight Amine
Taste: Slight Bitter
Solubility: Soluble in acetone and in ethyl alcohol.
Insoluble in water.
Volatiles % <0.5
Ash % <0.4

3. Hazard Information

Combustible dust

Keep away from heat, sparks and flame.

Eye irritant-Can cause redness, tearing and swelling.

Skin contact may cause allergic reaction.

Inhalation may cause upper respiratory irritation.

Ingestion of large quantities can cause damage to the liver and kidneys.

4. First Aid Information

Skin: Remove contaminated clothing and wash before re-use. Immediately wash contaminated skin with running water.

Ingestion: Immediately rinse mouth with water. Induce vomiting only at the instruction of a physician. Seek immediate medical attention.

Eyes: Flush with water for 15 minutes. Seek medical attention if irritation persists.

Inhalation: Remove person to fresh air. Get immediate medical attention if breathing is difficult or short.

5. Handling and Storage

Storage: Store in a dry well-ventilated area avoiding direct exposure to sunlight

Stability in storage: one year

6. Employee Protection Recommendations

The employee should wear protective clothes and avoid direct physical contact with the product.

Eye Protection: Wear chemical safety glasses or goggles

Hand Protective Requirements: Wear protective gloves.

Skin Protective Requirements: Wear overalls.

Ventilation: Local exhaust

7. Toxicological Information

Low toxicity

LD50 acute oral for rats: >6300mg/kg

LD50 acute skin for rats: >7940mg/kg

8. Fire and Explosion Data

Flash point:	Not available
Exposure standard limits:	Not available
Flammable	
Extinguish Media:	Spray water, Carbon Dioxide, foam, sand or dry chemical.

9. Reactivity

Chemical stability: Stable when stored in original container protected from heat and moisture.
Hazardous Polymerization: Does not occur.
Materials to avoid: Strong oxidizers, acids and water.
Hazardous products of decomposition: Carbon monoxide, amines, oxides of nitrogen and sulfur.

10. Accidental Release and Disposal

Spills: Sweep and place in closable container. Avoid generation of dust. Wear appropriate protective clothing and safety devices. Do not use water to remove spilled material.

Disposal: Bury waste and empty containers in licensed landfill in adherence to federal, state and local regulations.

11. Transportation Information

DOT Status	Not regulated
DOT shipping name	None
DOT reportable qty. (lbs)	None
ICAO/IATA Status	Not regulated
Proper shipping name	None
UN/NA number	None
IMDG Status	Not regulated
TDG Canada	Not regulated

12. Regulatory Information

TSCA (USA):	All components are listed.
Canadian DSL:	All components are listed.
Canadian NDSL:	Not Applicable. Listed on the DSL.
EINECS/ELINCS (Europe):	All components are listed.

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US Regulatory Rules

SARA Section 302: None found
SARA 311/312 Hazard Categories: Immediate Delayed Fire
SARA 313 Chemical: Component 2-Mercaptobenzothiazole.
Other Regulations:
California Proposition 65: NONE
New Jersey Right-to-Know List: Not Applicable.
Pennsylvania Right-to-Know List: Not Applicable.
Florida Right-to-Know List: Not Applicable.
Minnesota Right-to-Know List: Not Applicable.
MA Right-to-Know List: Not Applicable.

FDA Status 21 CFR: Regulated for Use under the following sections of 21 CFR:
177.2600 Rubber Articles
Intended for Repeated Use in Food Contact.

Canadian Regulations
WHMIS Hazard Class:

D2B TOXIC MATERIALS/
Materials Causing Other toxic
Effects

NPRI:

Not Listed. (Canada)

13. Other Information

FDA status 21 CFR Regulated for use under the following sections of 21CFR: 177.2600.
Rubber articles intended for repeated use in food contact

HMIS Classification Health 1 Flammability 1 Reactivity 0

Important Note: The information provided is without warranty regarding its accuracy or completeness. The information may not be valid under all conditions. The user has the final responsibility for determining the suitability of the product in a given application.

12/05