



SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: Westco TBSI

Other means of identification:

Product Description: TBSI is a vulcanizing accelerator.
Synonyms: N-(1,1-dimethylethyl)bis(2-benzothiazolesulfen)amide

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Used as a vulcanizing agent/ vulcanizing accelerator.

Chemical distributor, or other responsible party Name, address, and telephone number:

Distributor Name: Western Reserve Chemical Corporation
Address: 4837 Darrow Road
Stow, OH 44224
USA
General Phone Number: 330 650 2244
General Fax Number: 330 650 2255

Emergency phone number::

Emergency Phone Number: Chemtrec 1 800 424 9300 USA
Website: www.wrchem.com

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:



Signal Word: WARNING!
GHS Class: Hazardous to the aquatic environment,, Acute Category 1, Chronic Category 1
Hazard Statements: Very toxic to aquatic life with long lasting effects.
Precautionary Statements: Collect spillage. Avoid release to the environment. Dispose of contents/container in accordance with Local, State, Federal regulations.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.
Eye: May cause slight eye irritation.
Skin: May cause irritation and/or sensitization by skin contact.
Inhalation: May be harmful if inhales.
Chronic Health Effects: Repeated contact may cause allergic reactions.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
N-(1,1-dimethylethyl)bis(2-benzothiazolesulfen)amide	3741-80-8	92.65% by weight	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact: In case of eye contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the

upper and lower eyelids. Consult a physician.

- Skin Contact:** In case of skin contact: Wash off with soap and plenty of water. Consult a physician.
- Inhalation:** In case of inhalation: If large amounts of this material are inhaled in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Ingestion:** In case of ingestion: If ingested, do not induce vomiting. Rinse mouth with water. Consult a physician.

Most important symptoms/effects, acute and delayed:

Other First Aid: If skin irritation or rash occurs, get medical advice/attention.

Indication of immediate medical attention and special treatment needed:

- Note to Physicians:** In all cases of doubt, or when symptoms persist, seek medical attention.
- Notes :** The product is not classified as harmful to human health effect.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

- Suitable Extinguishing Media:** Use extinguishing agent suitable for surrounding fire. Water spray, foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media:** waterjet.

Specific hazards arising from the chemical:

- Hazardous Combustion Byproducts:** Combustible dust mixtures in air are possible.
- Unusual Fire Hazards:** Emits toxic fumes when burned: sulphur dioxide(SO₂), nitrous gases (NO_x).

Special protective equipment and precautions for fire-fighters:

- Protective Equipment:** As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
- Fire Fighting Instructions:** Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.
- Notes :** Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions: For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Put on appropriate personal protective equipment. For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

Environmental precautions:

- Environmental Precautions:** Do not allow material to be released to the environment without proper governmental permits.
- Methods for cleanup:** Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for reuse or disposal. Dispose of contaminated material as waste according to section 13. Clean up affected area.
- Notes :** See Section 7 for information on safe handling. See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

- Handling:** Good hygienic practices should be observed. Avoid contact with skin and eyes. Avoid generating and breathing dust; if exposed to high dust concentration, leave area immediately. Work clothes should be washed separately at the end of each work day. Since empty containers contain product residue, follow all hazard warnings and precautions even after container is emptied. Keep away from sources of ignition. Ensure good ventilation/exhaustion at the workplace. Normal measures for preventive fire protection.
- Hygiene Practices:** Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities:

Storage: Store in cool, dry place in tightly closed containers. Do not store near acids. Keep away from sources of ignition.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

Engineering Controls: Adequate ventilation should be provided to keep dust concentrations below acceptable exposure limits. Discharge from the ventilation system should comply with the applicable air pollution control regulations.

Individual protection measures:

Eye/Face Protection: Wear safety glasses or goggles to protect against exposure.

Skin Protection Description: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Hand Protection Description: Wear appropriate protective clothing to prevent skin exposure. Use gloves as a standard industrial handling procedure. Appropriate chemical resistant antisepticise and acid and base resistant rubber gloves should be worn.

Respiratory Protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: dust-protection mask.

PPE Pictograms:



SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Solid
Physical State Appearance:	Powder
Color:	Off-white - Gray
Odor:	Characteristic
Boiling Point:	Not relevant
Melting Point:	132°C
Density:	Density 1350 kg/m ³ (20 °C) Bulk density 530-580 kg/m ³
Solubility:	Solubility in water Practically insoluble Solubility in other solvents not determined
Vapor Pressure:	Negligible at room temperatures
pH:	not determined
Viscosity:	Not applicable.
Flammability:	Not determined.
Flash Point:	Testing of flashpoint of solid substances is not relevant.
Lower Flammable/Explosive Limit:	Non Explosive
Auto Ignition Temperature:	The substance is not auto flammable up to the melting temperature of 140°C.

SECTION 10 : STABILITY and REACTIVITY

Reactivity:

Reactivity: No dangerous reactions known.

Chemical Stability:

Chemical Stability: Stable under recommended storage and handling conditions (see section 7).

Conditions To Avoid:

Conditions to Avoid: Incompatible materials. Heating > 100 °C: Avoid excessive heat. May catch fire.

Incompatible Materials:

Incompatible Materials: Alkaline materials, strong oxidizing agents.

Hazardous Decomposition Products:

Special Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides (NO_x), sulphur oxides.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute Toxicity: Oral LD50 rat: > 5000 mg/kg.
Dermal LD50 rabbit: > 2000 mg/kg.

Eye:	Slightly irritating to eyes but not sufficient for classification.
Skin:	Not sensitizing, Non-irritating.
Sensitization:	Not sensitizing
Carcinogenicity:	Not classified
Mutagenicity:	Negative
Reproductive Toxicity:	Not classified

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity:	Toxicity fish: 96h-LC50 (Lepomis macrochirus): 2.0mg/l. 96h-LC50 (Oncorhynchus mykiss): 2.5mg/l. 96h-LC50 (Pimephales promelas): 2.3mg/l. daphnia: 48h-EC50 (Daphnia magna): >0.005 mg/l. Results of PBT and vPvB assessment Not Classified as PBT/vPvB by current EU criteria
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Persistence and degradability:

Biodegradation:	Not readily biodegradable
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Bioaccumulative potential:

Bioaccumulation:	Not Available
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Mobility in soil:

Mobility In Environmental Media:	Not Available
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Other adverse effects:

Effect of Material On Aquatic Life:	Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
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SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal:	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
Contaminated Packaging:	If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.
Notes :	Avoid discharge into the environment.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name:	Non regulated.
DOT Pictograms:	
IATA Shipping Name:	Environmentally hazardous substance, solid, n.o.s. (N-(1,1-dimethylethyl)bis(2-benzothiazolesulfen)amide)
IATA UN Number:	3077
IATA Hazard Class:	9
IATA Packing Group:	III
IATA Pictograms:	
IMDG UN Number :	3077
IMDG Shipping Name :	Environmentally hazardous substance, solid, n.o.s. (N-(1,1-dimethylethyl)bis(2-benzothiazolesulfen)amide)
IMDG Hazard Class :	9
IMDG Packing Group :	III
ADR UN Number:	3077
ADR Shipping Name :	Environmentally hazardous substance, solid, n.o.s. (N-(1,1-dimethylethyl)bis(2-benzothiazolesulfen)amide)
ADR Hazard Class:	9
ADR Packing Group :	III
RID UN Number :	3077
RID Shipping Name :	Environmentally hazardous substance, solid, n.o.s. (N-(1,1-dimethylethyl)bis(2-benzothiazolesulfen)amide)

RID Hazard Class : 9
 RID Packing Group : III
 ICAO UN Number : 3077
 ICAO Shipping Name: Environmentally hazardous substance, solid, n.o.s. (N-(1,1-dimethylethyl)bis(2-benzothiazolesulfen)amide)
 ICAO Hazard Class : 9
 ICAO Packing Group : III

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

TSCA Inventory Status: Complies

CERCLA Section 302: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Section 311/312 Hazard Categories: Acute Health Hazard: no
 Chronic Health Hazard: no
 Fire Hazard: yes
 Sudden release of pressure hazard: no
 Reactive Hazard: no

Section 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Clean Water Act RQ: This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

California PROP 65: This product does not contain any Proposition 65 chemicals.

Risk Phrases: R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrase: S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.



SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 1
 HMIS Fire Hazard: 1
 HMIS Reactivity: 0
 HMIS Personal Protection: J

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	J

SDS Creation Date: November 02, 2016
 SDS Revision Date: August 30, 2017

Notes : Important Note: This information relates to the specific product described herein and may not be valid for this material when used in combination with other raw materials. 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.

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