



SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: **Westco TBMC**

Other means of identification:

Product Description: Phenolic antioxidant
Synonyms: 4,4'-Thiobis(6-tert-butyl-m-cresol)

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Westco TBMC is a low hindered phenolic antioxidant providing optimum balance between scorch resistance, long term heat aging and crosslinking efficiency.

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: * Skin Irritant, Category 2.
* Eye Irritant, Category 2.

Hazard Statements: * Causes skin irritation.
* Causes serious eye irritation.

Precautionary Statements: * Do not breathe dust/fume/gas/mist/vapours/spray.
* IF ON SKIN: Wash with plenty of soap and water.
* IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Emergency Overview: Avoid contact with the skin and the eyes.

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects: Dusts and particles from this product may cause irritation.

Acute Health Effects: Irritant effects, Cough, Shortness of breath

Eye: Contact with eyes may cause serious irritation.

Skin: Contact with skin may cause irritation.

Inhalation: Dust from this product, if inhaled, may cause respiratory irritation.

Ingestion: No Information Provided.

Carcinogenicity: None of the components reportable in this product are listed by IARC, OSHA or NTP.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
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SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact:	Wash with plenty of soap and water. Remove contaminated clothing.
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, seek medical advice
Ingestion:	Wash mouth out with water. Get medical aid immediately.

Indication of immediate medical attention and special treatment needed:

Note to Physicians:	Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident.
Notes :	In all cases of doubt, or when symptoms persist, seek medical attention.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Dry powder, Foam, water spray, carbon dioxide.
Unsuitable extinguishing media:	For this substance no limitations of extinguishing agents are given.

Specific hazards arising from the chemical:

Hazardous Combustion Byproducts:	Fire may cause evolution of: Carbon oxides, sulphur oxides.
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Special protective equipment and precautions for fire-fighters:

Protective Equipment:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Fire Fighting Instructions:	Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing. Prevent fire-fighting water from entering surface water or groundwater.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personnel Precautions:	Advice for non-emergency personnel: Avoid substance contact. Avoid inhalation of dusts. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures Advice for emergency responders: Protective equipment see section 8.
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Environmental precautions:

Environmental Precautions:	Avoid release to the environment. Do not empty into drains or water systems.
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Methods and materials for containment and cleaning up:

Methods for containment:	Cover drains. Collect, bind, and pump off spills.
Methods for cleanup:	Sweep up immediately. Place in marked container for proper disposal.
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:	Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
Hygiene Practices:	* Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist. * Follow good industrial hygiene practices when handling this material. * When using, do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities:

Storage: Store in a cool, dry place. Store in a tightly closed container.

Specific end use(s):

Work Practices: * Safety showers and eye wash stations should be available.
* Keep in a well-ventilated place.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Individual protection measures:

Eye/Face Protection: Chemical goggles.

Skin Protection Description: Apron or coveralls should be used to prevent contact with skin or clothing.

Hand Protection Description: Wear appropriate protective gloves to prevent skin exposure.
Hand protection, full contact:
Glove material: Nitrile rubber
Glove thickness: 0.11 mm
Break through time: > 480 min
Hand protection, splash contact:
Glove material: Nitrile rubber
Glove thickness: 0.11 mm
Break through time: > 480 min

Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

PPE Pictograms:



SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Solid powder

Physical State Appearance: dry powder.

Color: White

Odor: Weakly aromatic

Boiling Point: No data available

Density: No data available

Solubility: at 20 oC, Insoluble in water.

Vapor Pressure: No data available

Evaporation Rate: No data available

pH: No data available

Viscosity: No data available

Flammability: No data available

Flash Point: No Information Provided.

Explosive Properties: Forms explosive mixtures with air on intense heating.

Oxidizing Properties: Fire may cause evolution of: Carbon oxides, sulphur oxides.

9.2. Other information:

Notes : Melting point: 160-164 °C
Ignition temperature: 402oC

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: Stable under recommended storage conditions.

Conditions To Avoid:

Conditions to Avoid: Strong heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical

Incompatible Materials:

Incompatible Materials: Violent reactions possible with: Strong oxidizing agents.

Hazardous Decomposition Products:

Special Decomposition Products: Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxide.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute Toxicity:	LD50 rat. Dose: 2.345 mg/g (RTECS) Acute inhalation toxicity: Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract. Mucosal irritations, Cough, Shortness of breath.
Eye:	Causes serious eye irritation.
Skin:	Causes skin irritation.
Inhalation:	May cause irritation to respiratory tract.
Sensitization:	No data available
Notes :	CMR effects (Carcinogenicity, Mutagenicity and Toxicity for Reproduction): Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA STOT-single exposure and repeated exposure: No data available.

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: Quantitative data on the acute fish/daphnia/algae/bacteria toxicity of this product are not available.

Bioaccumulative potential:

Bioaccumulation: log Pow: 8.24
Method: (calculated)
(Lit.) A remarkable bioaccumulation potential is expected (log Po/w >3).

Mobility in soil:

Mobility In Environmental Media: No data available

Other adverse effects:

Effect of Material On Aquatic Life: No Information Provided.

Effect of Material on Plants/Animals: No Information Provided.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated Packaging: Dispose of as unused product.

Notes : Disposal of product and packaging must be done in accordance with all local, state and federal regulations.

SECTION 14 : TRANSPORT INFORMATION

DOT Hazard Class: This product is not regulated as a hazardous material or dangerous goods for transportation.

DOT Pictograms:



IATA Hazard Class: This product is not regulated as a hazardous material or dangerous goods for transportation.

IATA Pictograms:



IMDG Hazard Class : This product is not regulated as a hazardous material or dangerous goods for transportation.

ADR Hazard Class: This product is not regulated as a hazardous material or dangerous goods for transportation.

RID Hazard Class : This product is not regulated as a hazardous material or dangerous goods for transportation.

ICAO Hazard Class : This product is not regulated as a hazardous material or dangerous goods for transportation.

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

TSCA Inventory Status: CAS# 96-69-5 is not listed in the inventory.

Risk Phrases: R36/38 - Irritating to eyes and skin.

Safety Phrase:

- * S 3 - Keep in a cool place.
- * S 9 - Keep container in a well-ventilated place.
- * S24/25 - Avoid contact with skin and eyes.
- * S36/37 - Wear suitable protective clothing and gloves.



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: July 02, 2015

SDS Revision Date: July 02, 2015

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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