



SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: Westco BHT Technical Grade
SDS Manufacturer Number: 40

Other means of identification:

Product Description: WESTCO BHT Technical Grade is a versatile antioxidant that acts as a stabilizer and processing aid in natural and synthetic elastomers, polymeric materials subject to oxidation, packaging materials, waxes, insecticides, synthetic lubricants, paints, etc.

Synonyms: Butylated Hydroxytoluene

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Westco BHT is a versatile antioxidant that acts as a stabilizer and processing aid in natural and synthetic elastomers, polymeric materials subject to oxidation, packaging materials, waxes, insecticides, synthetic lubricants, paints, etc. It retards oxidation in animal, vegetable and mineral oils, fats, greases and products containing these materials. WESTCO BHT Technical Grade is not suitable for food, cosmetics, and pharmaceutical applications.

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 Class: Statement: The substance does not meet the criteria for classification.

Precautionary statement:
Prevention Response:
Observe good industrial hygiene practices.
Wash hands after handling.

Storage: Store away from incompatible materials.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC): None known.

Supplemental information: None.

Hazard Statements: May form combustible dust concentrations in air.
At elevated temperatures this product may irritate the eyes and nasal passages.

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

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

BHT (Butylated Hydroxytoluene)

Potential Health Effects: This product has no known adverse effect on human health.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Physical Health Hazard: Not classified.
Health hazards: Not classified.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
BHT (Butylated Hydroxytoluene)	128-37-0	90 - 100 %	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
Skin Contact:	Wash off with soap and water. Get medical attention if irritation develops and persists.
Inhalation:	If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.
Ingestion:	Rinse mouth. Get medical attention if symptoms occur.
Notes :	Most important symptoms/effects, acute and delayed: Upper respiratory tract irritation. Irritation of eyes and mucous membranes. Skin irritation. Indication of immediate medical attention and special treatment needed: Treat symptomatically. General information: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Suitable: Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media:	Do not use a solid water stream as it may scatter and spread fire.
Unusual Fire Hazards:	No unusual fire or explosion hazard known to exist.

Special protective equipment and precautions for fire-fighters:

Protective Equipment:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire Fighting Instructions:	Use water spray to cool unopened containers.
Notes :	Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed. Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials. Upper/lower flammability or explosive limits: Flammability limit - lower(%): Not available. Flammability limit - upper(%): Not available. Explosive limit - lower (%): Not available. Explosive limit - upper (%) : Not available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions:	Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
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Environmental precautions:

Environmental Precautions:	Avoid discharge into drains, water courses or onto the ground.
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Methods and materials for containment and cleaning up:

Methods for containment:	If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Methods for cleanup:	If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling:	Precautions for safe handling: Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Avoid prolonged exposure. Practice good housekeeping.
Hygiene Practices:	General hygiene considerations: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
<u>Conditions for safe storage, including any incompatibilities:</u>	
Storage:	Conditions for safe storage, including any incompatibilities: Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
<u>Specific end use(s):</u>	
Work Practices:	Safety showers and eye wash stations should be available.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

Engineering Controls: Appropriate engineering controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn.

Individual protection measures:

Eye/Face Protection: Use tight fitting goggles if dust is generated.

Skin Protection Description: ACTIOPHRASE_13369 Apron or coveralls should be used to prevent contact with skin or clothing.

Hand Protection Description: Wear appropriate chemical resistant gloves.

Respiratory Protection: Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

PPE Pictograms:



Notes :

Biological limit values: No biological exposure limits noted for the ingredient(s).

Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Solid. Form: Powder.
Color:	White
Odor:	Slight
Odor Threshold:	Not available.
Boiling Point:	Initial boiling point and boiling range: 509 deg F (265 deg C)
Melting Point:	158 deg F (70 deg C)
Density:	1.05 g/cm ³ estimated Relative density: Not available.
Specific Gravity:	1.05 at 20 deg C
Vapor Density:	7.6
Vapor Pressure:	0.0007 kPa at 25 deg C 0 Pa at 25 deg C 0 Pa at 20 deg C 0.003 hPa at 25 deg C 0.16 hPa at 50 deg C
Evaporation Rate:	Not available.
pH:	Not available.
Molecular Formula:	C ₁₅ -H ₂₄ -O
Molecular Weight:	220.34 g/mol
Flash Point:	261.0 deg F (127.2 deg C) 260.0 deg F (126.7 deg C)
Flash Point Method:	Open Cup
Auto Ignition Temperature:	Not available.

9.2. Other information:

Notes : Flammability (solid, gas): Not available.

Upper/lower flammability or explosive limits:
Flammability limit - lower(%): Not available.
Flammability limit - upper(%): Not available.
Explosive limit - lower (%): Not available.
Explosive limit - upper (%): Not available.

SECTION 10 : STABILITY and REACTIVITY

Reactivity:

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Chemical Stability:

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous reactions:

Hazardous Polymerization: Will not occur.

Conditions To Avoid:

Conditions to Avoid: Contact with strong oxidizing agents. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Incompatible Materials:

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products:

Special Decomposition Products: No hazardous decomposition products are known.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

BHT (Butylated Hydroxytoluene) :

Acute Toxicity: DERMAL:
LD50 Rat > 2000 mg/kg
> 2000 mg/kg, 4 wk (3 x/wk)

BHT (Butylated Hydroxytoluene) :

OSHA: OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):
Not listed.

IARC: IARC Monographs. Overall Evaluation of Carcinogenicity:
BHT (Butylated Hydroxytoluene) (CAS 128-37-0)
3 Not classifiable as to carcinogenicity to humans.

BHT (Butylated Hydroxytoluene) :

Eye: Dust in the eyes will cause irritation.

Skin: No adverse effects due to skin contact are expected.

Product: BHT (Butylated Hydroxytoluene) (CAS 128-37-0)
DERMAL:
LD50 Rat: > 2000 mg/kg
> 2000 mg/kg, 4 wk (3 x/wk)

Inhalation: Inhalation of dusts may cause respiratory irritation. Prolonged inhalation may be harmful.

Ingestion: Expected to be a low ingestion hazard.

Chronic Effects: Prolonged inhalation may be harmful.

Carcinogenicity: Not classifiable as to carcinogenicity to humans.

Mutagenicity: Germ cell mutagenicity:
ORAL: LD50:
Mouse: 2000 mg/kg
Rat: > 6000 mg/kg

Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.

SECTION 12 : ECOLOGICAL INFORMATION

BHT (Butylated Hydroxytoluene) :

Ecotoxicity:

Ecotoxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Bioaccumulative potential:

Bioaccumulation: Bioaccumulative potential: No data available.

Notes : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site.


Local disposal regulations: Dispose in accordance with all applicable regulations.

Waste from residues/unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).


Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: Not regulated as dangerous goods.

DOT Pictograms: 

IATA Shipping Name: Not regulated as dangerous goods.

IATA Pictograms: 

IMDG UN Number : UN3077

IMDG Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BHT (Butylated Hydroxytoluene)), MARINE POLLUTANT

IMDG Hazard Class : 9

IMDG Packing Group : III

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

US Federal: No Information Provided.

TSCA Inventory Status: All components of this product are listed in the TSCA inventory of Chemicals Substances.

TSCA 12(b) Export Notification: Non regulated.

SARA: : This product does not contain any material regulated under Title III, Section 313 This product is an immediate (acute) health hazard per Section 311/312

Section 302 EHS: Non regulated.

Section 304 RQ: Non regulated.

CERCLA Section 302: Not listed

Section 311/312 Hazard Categories: Listed

Section 313: Non regulated.

Clean Air Act: Non regulated.

Clean Water Act RQ: Non regulated.

OSHA Process Safety: Not listed

California PROP 65: California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Risk Phrases: R36 - Irritating to eyes.

Safety Phrase: S25 - Avoid contact with eyes. S29 - Do not empty into drains. S38 - In case of insufficient ventilation, wear suitable respiratory equipment.

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 Revision Date: July 07, 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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