

Safety Data Sheet

Butylated Hydroxy Toluene

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Butylated Hydroxy Toluene

Synonyms/Generic Names: BHT; Ionol; Ionol (antioxidant); 2,6-Di-tertbutyl-p-cresol, 2,6-Bis(1,1-dimethylethyl)-4-methylphenol, 2,6-Di-tert-butyl-1-hydroxy-4-methylbenzene, 2,6-Di-tertbutyl-p-methylphenol, 3,5-Di-tert-butyl-4-hydroxytoluene, 4-Methyl-2,6-di-tert-butylphenol, Butylated hydroxytoluene,

Butylhydroxytoluene

SDS Number: 137.00

Product Use: For Educational Use Only

Manufacturer: Columbus Chemical Industries, Inc.

N4335 Temkin Rd. Columbus, WI. 53925

For More Information Contact: Ward's Science

5100 West Henrietta Rd. PO Box 92912-9012 Rochester, NY 14692

(800) 962-2660 (Monday-Friday 7:30-7:00 Eastern Time)

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

OSHA Hazards: Harmful by ingestion, Irritant

Target Organs: None
Signal Words: Warning

Pictograms:





GHS Classification:

Acute toxicity, Oral	Category 4
Skin irritation	Category 2
Eye irritation	Category 2A
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

GHS Label Elements, including precautionary statements:

Hazard Statements:

H302	Harmful if swallowed.			
H315	Causes skin irritation.			
H319	Causes serious eye irritation.			
H411	Toxic to aquatic life with long lasting effects.			

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Precautionary Statements:

P273	Avoid release to the environment.			
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact			
	lenses, if present and easy to do. Continue rinsing.			

Potential Health Effects

Eyes	Causes eye irritation.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Ingestion	Harmful if swallowed.

NFPA Ratings

Health	2	
Flammability	0	
Reactivity	0	
Specific hazard	Not Available	

HMIS Ratings

9			
Health	2		
Fire	0		
Reactivity	0		
Personal	Е		

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
Butylated Hydroxy Toluene	100	128-37-0	204-881-4	C ₁₅ H ₂₄ O	220.35 g/mol

4. FIRST-AID MEASURES

Eyes	In case of eye contact, rinse with plenty of water for at least 15 minutes and seek medical attention.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not
	breathing, give artificial respiration. Get medical attention.
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated
	clothing and wash using soap. Get medical attention.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If
	conscious, wash out mouth with water. Get medical attention.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Product is not flammable. Use appropriate media for adjacent fire. Cool unopened containers with water.			
Special protective equipment	Wear self-contained, approved breathing apparatus and full protective			
and precautions for firefighters	clothing, including eye protection and boots.			
Specific hazards arising from	Emits toxic fumes (carbon oxides) under fire conditions. See also			
the chemical	Stability and Reactivity section.			

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.

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Methods and materials for	Sweep up and place in suitable, closed containers for disposal. Clean	
containment and cleaning up	surfaces thoroughly with water to remove residual contamination. Dispose	
	of all waste and cleanup materials in accordance with regulations.	

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls:

Component	Exposure Limits	Basis	Entity
Butylated Hydroxy Toluene	2 mg/m ³	TLV	ACGIH
	10 mg/m ³	REL	NIOSH

TWA: Time Weighted Average over 8 hours of work. TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes. IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

Personal Protection

Eyes	Wear chemical safety glasses or goggles.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an
	approved respirator.
Skin	Wear nitrile or rubber gloves, apron or lab coat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Other	Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Clear, colorless to pale yellow solid.
Odor	Phenolic.
Odor threshold	Not Available
pH	Not Available
Melting point/freezing point	70°C (158°F)
Initial boiling point and boiling range	265°C (509°F)
Flash point	127°C (261°F)
Evaporation rate	Not Available
Flammability (solid, gas)	Not Available

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Upper/lower flammability or explosive limit	Not Available
Vapor pressure	0.01 hPa (0.01 mmHg) at 20°C (68°F)
Vapor density	7.6 (air=1)
Relative density	0.833 (water = 1)
Solubility (ies)	Soluble in methanol, acetone, toluene, isopropanol, methyl ethyl ketone, ethanol, petroleum ether, benzene, cellosolove, linseed oil.
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	470°C (878°F)
Decomposition temperature	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Excess heat.
Incompatible Materials	Acid chlorides, acid anhydrides, oxidizing agents, bases, brass,
	copper.
Hazardous Decomposition Products	Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Skin	Not Available
Eyes	Not Available
Respiratory	Not Available
Ingestion	LD50 – Rat – 890 mg/kg

Carcinogenicity

IARC	3-Group 3: Not classifiable as to its carcinogenicity to humans (butylated hydroxyl toluene).
ACGIH	A4: Not classifiable for human or animal (butylated hydroxyl toluene).
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Mild to moderate skin irritation. May cause allergic reaction (dermatitis).	
Eyes	Moderate irritation, redness, watering of eyes.	
Respiratory	Coughing, wheezing.	
Ingestion	Dizziness, weakness, slurred speech, ataxia, headache, confusion.	

Chronic Toxicity	May case damage to blood, liver, central nervous system.
Teratogenicity	May cause adverse reproductive effects and birth defects.
Mutagenicity	Mutagenic to bacteria and yeast. May affect genetic material.
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

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12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate	LC50 – Oryzias latipes – 5.3 mg/L – 48h
Aquatic Invertebrate	EC50 – Daphnia pulex – 1.44 mg/L – 48h
Terrestrial	Not Available

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste products or residues.
Product	Users should review their operations in terms of the applicable federal/national or
Containers	local regulations and consult with appropriate regulatory agencies if necessary
	before disposing of waste product containers.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	Not Dangerous Goods
TDG	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.,
	(BUTYLATED HYDROXYTOLUENE), 9, pg III
IMDG	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.,
	(BUTYLATED HYDROXYTOLUENE), 9, pg III
Marine Pollutant	Yes
IATA/ICAO	UN3077, Environmentally hazardous substance, solid, n.o.s., (butylated
	hydroxytoluene), 9, pg III

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.	
DSCL (EEC)	All ingredients are listed on the DSCL inventory.	
California Proposition 65	Not Listed	
SARA 302	Not Listed	
SARA 304	Not Listed	
SARA 311	Acute Health Hazard	
SARA 312	Acute Health Hazard	
SARA 313	Not Listed	
WHMIS Canada	HMIS Canada Class D-1B: Poisonous and infectious material- Immediate and serious	
	effects- Toxic	
	Class D-2B: Poisonous and infectious material- Other effects- Toxic	

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16. OTHER INFORMATION

Revision	Date
Revision 1	01/08/2013
Revision 2	06/21/2013

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