

## BHT (Butylated Hydroxytoluene)

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /  
March 26, 2012 / Rules and Regulation

Revision Date: 16-Sep-2022  
Supersedes: 21-Aug-2019

### 1 PRODUCT & COMPANY IDENTIFICATION

<b>Product Name:</b>	BHT	<b>Distributor:</b>	MakingCosmetics.com Inc.
<b>Synonyms:</b>	Butylated Hydroxytoluene; 2,6-di-tert-butyl-4-methyl phenol; 2,6-di-tert-butyl-p-cresol	<b>Address:</b>	10800 231 <sup>st</sup> Way NE Redmond, WA 98053 (USA)
<b>INCI Name:</b>	Butylated hydroxytoluene	<b>Phone / Fax:</b>	425-292-9502 / 425-292-9601
<b>CAS Number:</b>	128-37-0	<b>Web:</b>	<a href="http://www.makingcosmetics.com">www.makingcosmetics.com</a>
<b>Formula:</b>	No data available	<b>Emergency Telephone Number:</b>	1-800-424-9300 (Chemtrec)
<b>Product Form:</b>	Powder or granules		
<b>Product Use:</b>	Cosmetic use		

### 2 HAZARDS IDENTIFICATION

<b>GHS Classification:</b>	Serious eye damage/eye irritation - Category 2B Specific target organ systemic toxicity (Single exposure) - Category 3 Acute aquatic toxicity - Category 1 Chronic aquatic toxicity - Category 1
<b>GHS Signal Word:</b>	WARNING
<b>GHS Hazard Pictograms:</b>	
<b>GHS Hazard Statements:</b>	H319: Causes serious eye irritation. H335: May cause respiratory irritation. H410: Very toxic to aquatic life with long lasting effects.
<b>GHS Precautionary Statements:</b>	P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P264: Wash face, hands, and any exposed skin thoroughly after handling. P270: Do not eat, drink or smoke while using this product. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment. P280: Wear eye protection/face protection. P301 + P302: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P304 + P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTER or doctor/physician if you feel unwell P330 Rinse mouth. P333 + P313 If skin irritation or rash occurs: get medical advice. P337 + P313: If eye irritation persists, Get medical advice/attention. P363: Wash contaminated clothing before re-use. P391: Collect spillage. P403 + P233: Store in a well-ventilated place. Keep container tightly closed. P501: Dispose of contents/container to an approved waste disposal plant. Combustible dust clouds may be created where operations produce fine material (dust). Avoid significant deposits of material, especially no horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA-654).
<b>Potential Health Hazards:</b>	Eyes: Irritating to eyes. Inhalation: Inhalation of dust in high concentration may cause irritation of respiratory system.

<b>NFPA Ratings (704):</b>	Skin: May cause skin irritation.		
	Ingestion: May be irritating if swallowed.		
	<b>Health</b>	1	Slight
	<b>Flammability</b>	1	Slight
	<b>Reactivity</b>	0	Minimal
	Specific Hazard	N/A	

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Butylated hydroxytoluene	128-37-0	>99%	220.34

### 4 FIRST AID MEASURES

<b>Eyes:</b>	IF IN EYES: Flush eyes with plenty of water for 15 minutes, occasionally lifting the upper and lower lids. Get medical attention if eye irritation develops or persists. cautiously with water for several minutes.
<b>Inhalation:</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
<b>Skin:</b>	Wash off skin with soap and water. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.
<b>Ingestion:</b>	Not an expected route of exposure. If swallowed: Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, give 2 glasses of water. Get immediate medical attention.

### 5 FIRE-FIGHTING MEASURES

<b>Suitable (and unsuitable) extinguishing media:</b>	Combustible material: may burn but does not ignite easily. Use appropriate media (water spray, carbon dioxide, dry chemical fire extinguisher) for adjacent fire.
<b>Special protective equipment &amp; precautions for firefighters:</b>	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
<b>Flash Points:</b>	118°C / 244°F (closed cup)
<b>Specific hazards arising from the chemical:</b>	As the product contains combustible organic ingredients, fire will produce dense black smoke containing hazardous products of combustion (see Section 10). In case of incomplete combustion an increased formulation of oxides of nitrogen (NOx) is to be expected.
<b>Explosive Properties:</b>	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges. See Section 9 for more information.

### 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment &amp; emergency procedures:</b>	Evacuate personnel to safe areas. Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment. Prevent further leakage or spillage if safe to do so. Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are release into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (I.e., clearing dust surfaces with compressed air). Non-sparking tools should be used.
<b>Environmental precautions:</b>	Prevent further leakage or pillage if safe to do so. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. Keep out of waterways. If the product contaminates rives and lakes or drains, inform respective authorities.
<b>Methods and material for containment and cleaning up:</b>	Use personal protective equipment. Take precautionary measures against static discharges. Avoid dust formation. Take up mechanically and collect in suitable container for disposal. Non-sparking tools should be used. Clean contaminated surface thoroughly.

### 7 HANDLING & STORAGE

<b>Precautions for safe</b>	Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts
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<b>handling:</b>	do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Avoid contact with skin and eyes. Do not breathe vapors/dust. Handle in accordance with good industrial hygiene and safety practice.
<b>Conditions for safe storage, incl. any incompatibilities:</b>	Keep container tightly closed and in a cool, well ventilated place. Keep away from heat and incompatible materials (see section 10 for incompatibilities).

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Butylated hydroxytoluene	2 mg/m <sup>3</sup>	TWA (inhalable fraction & vapor)	ACGIH TLV
	10 mg/m <sup>3</sup>	TWA	NIOSH REL
	10 mg/m <sup>3</sup>	(vacated) TWA	OSHA PEL
	2 mg/m <sup>3</sup>	TWA	Ontario TWA
	2 mg/m <sup>3</sup>	TWA	Korea
	10 mg/m <sup>3</sup>		Australia
	10 mg/m <sup>3</sup>	Mexico: TWA	Mexico
	20 mg/m <sup>3</sup>	Mexico: STEL	Mexico
	2 mg/m <sup>3</sup>	TWA	Argentina
2 ppm	TWA	Venezuela	

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:

<b>Eyes:</b>	Safety glasses with side shields. Molten form: Goggles; Face shield.
<b>Inhalation:</b>	It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust in the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks. Ensure adequate ventilation, especially in confined areas. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. No respiratory protection needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.
<b>Body:</b>	Long sleeved clothing should be worn. Impervious gloves should be worn.
<b>Other:</b>	Use good personal hygiene practices. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance @ 20 °C:</b>	White crystalline powder or granules	<b>Vapor Pressure:</b>	0.01 mmHg @ 20 °C
<b>Odor:</b>	Mild	<b>Vapor Density:</b>	7.6
<b>Odor Threshold:</b>	No data available	<b>Evaporation Rate:</b>	No data available
<b>Color:</b>	clear	<b>Flammability:</b>	No data available
<b>Molecular Weight:</b>	220.34	<b>Upper/lower Explosive Limit:</b>	Not applicable
<b>pH:</b>	7.2 (5% solution)	<b>Solubility in Water:</b>	No data available
<b>Boiling Point:</b>	265 °C / 509 °F	<b>Flash Point (closed cup):</b>	127 °C / 260.6 °F
<b>Melting Point/Range:</b>	69-73 °C (156-158 °F)	<b>Specific Gravity:</b>	No data available
<b>Relative Density:</b>	No data available	<b>Auto-Ignition Temperature:</b>	470 °C
<b>Partition Coefficient: n-octanol/water:</b>	No data available	<b>Decomposition Temperature:</b>	No data available
<b>Viscosity (dynamic):</b>	No data available	<b>Explosive Properties:</b>	No data available
<b>Oxidizing Properties:</b>	No data available	<b>Freezing Point:</b>	No data available

## 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	Stable under normal conditions.
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Hazardous Polymerization:</b>	Does not occur.
<b>Conditions to Avoid:</b>	Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.
<b>Incompatible Materials:</b>	Oxidizing products and concentrated alkalis.
<b>Hazardous Decomposition Products:</b>	May generate flammable gasses on contact with elementary metals (alkalis and alkaline), nitrides and powerful reducing agents.

## 11 TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	No data available
<b>Skin:</b>	No data available
<b>Eyes:</b>	No data available
<b>Respiratory:</b>	No data available
<b>Ingestion:</b>	LD50/LC50: Oral, mouse 650 mg/kg LD50 Oral, rat= 890mg/kg.
<b>Carcinogenicity:</b>	Contains no ingredient listed as a carcinogen.
<b>Teratogenicity:</b>	No data available
<b>Germ Cell Mutagenicity:</b>	No data available
<b>Embryotoxicity:</b>	No data available
<b>Specific Target Organ Toxicity:</b>	No data available
<b>Reproductive Toxicity:</b>	No data available
<b>Respiratory/Skin Sensitization:</b>	No data available
<b>Corrosivity:</b>	No data available
<b>Sensitization:</b>	No data available
<b>Irritation:</b>	No data available
<b>Repeated Dose Toxicity:</b>	No data available
<b>Other Adverse Effects:</b>	No data available

## 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Very toxic to aquatic life with long lasting effects.
<b>Aquatic Vertebrate:</b>	LC50: 5 mg/L (48h) ( <i>Oryzias latipes</i> )
<b>Aquatic Invertebrate:</b>	EC50: 0.48 mg/L (48h) ( <i>Daphnia magna</i> ) (immonilization)
<b>Terrestrial:</b>	EC50: 6 mg/L (72h) ( <i>Pseudokirchneriella subcapitata</i> ) EC50: >0.42 mg/L (72h) ( <i>Desmodesmus subsicatus</i> )
<b>Persistence and Degradability:</b>	Not readily biodegradable.
<b>Bioaccumulative Potential:</b>	No data available
<b>Bioconcentration Factor (BCF):</b>	No data available
<b>Mobility in Soil:</b>	No data available
<b>PBT and vPvB Assessment:</b>	No data available
<b>Other Adverse Effects:</b>	Results of PBT and vPvB assessment vPvB substances: None-PBT Subsatnces.

## 13 DISPOSAL CONSIDERATIONS

<b>Waste Residues:</b>	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 product container.
<b>Product Containers:</b>	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 product container.

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

## 14 TRANSPORT INFORMATION

<b>DOT (Dept. of Transportation, USA):</b>	Proper shipping name: Environmentally Hazardous Substance, Solid, n.o.s. (Butylated Hydroxytoluene) Hazard class: 9 UN/ID No.: 3077 Packing group: III Marine pollutant: Product is a marine pollutant according to the criteria set by IMDG/IMO
<b>TDG (Transportation of Dangerous Goods, Canada): IMDG (International Maritime Dangerous Goods):</b>	No data available Proper shipping name: Environmentally Hazardous Substance, Solid, n.o.s. (Butylated Hydroxytoluene) Hazard class: 9 UN/ID No.: 3077 Packing group: III Marine pollutant: Product is a marine pollutant according to the criteria set by IMDG/IMO
<b>IATA (International Air Transport Association):</b>	UN/ID No.: 3077 Proper shipping name: Environmentally Hazardous Substance, Solid, n.o.s. (Butylated Hydroxytoluene) Hazard class: 9 Packing group: III
<b>ICAO (International Civil Aviation Organization):</b>	UN/ID No.: 3077 Proper shipping name: Environmentally Hazardous Substance, Solid, n.o.s. (Butylated Hydroxytoluene) Hazard class: 9 Packing group: III
<b>ADR/RID:</b>	Proper shipping name: Environmentally Hazardous Substance, Solid, n.o.s. (Butylated Hydroxytoluene) Hazard class: 9 UN/ID No.: 3077 Packing group: III

## 15 REGULATORY INFORMATION

<b>OSHA:</b>	This product is listed as hazardous by communication Standard, 29 CFR 1910.1200.
<b>TSCA Inventory Status:</b>	Complies
<b>DSCL (EEC):</b>	Complies
<b>WHMIS (Canada):</b>	No data available
<b>EU EINECS/ELINCS/NLP:</b>	Complies
<b>China IECSC:</b>	Complies
<b>China IECIC (06.30.2014):</b>	Complies
<b>Australia AICS:</b>	Complies
<b>Korea KECL:</b>	Complies
<b>Philippines PICCS:</b>	Complies
<b>SARA 313:</b>	Not Listed
<b>SARA 311/312 Hazard Categories:</b>	Acute Health and Fire Hazard Chronic Health Hazard: No
<b>Clean Water Act:</b>	Not Lised
<b>CERCLA:</b>	Not Lised

## 16 OTHER INFORMATION

<b>Revision Date:</b>	16-Sep-2022
<b>Compliance:</b>	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

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**Disclaimer:**

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