



Revision Date: 26-Aug-2020

Supersedes: 09-Jun-2016

BHT (Butylated Hydroxytoluene)

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

PRODUCT & COMPANY IDENTIFICATION

Product Name: Synonyms: Butylated Hydroxytoluene;

2,6-di-tert-butyl-4-methyl phenol;

2,6-di-tert-butyl-p-cresol

INCI Name: Butylated hydroxytoluene

CAS Number: 128-37-0

Formula: No data available **Product Form:** Powder or granules

Product Use: Cosmetic use Distributor: MakingCosmetics.com Inc.

Address: 10800 231st Way NE

Redmond, WA 98053 (USA)

Phone / Fax: 425-292-9502 / 425-292-9601 Web: www.makingcosmetics.com

Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

GHS Classification: 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

WARNING **GHS Signal Word:**

GHS Hazard Pictograms:

GHS Hazard Statements: H320: Causes eye irritation.

H335 + P336: May cause respiratory irritation. May cause drowsiness or dizziness.

H410: Very toxic to aquatic life with long lasting effects.

May form combustible dust concentrations in air (during processing)

P280: Wear eye protection/face protection. **GHS Precautionary Statements:**

P264: Wash face, hands, and any exposed skin thoroughly after handling.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists, Get medical advice/attention.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P271: Use only outdoors or in a well-ventilated area.

P304 + P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable

for breathing.

P304 + P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P273: Avoid release to the environment.

P391: Collect spillage.

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).

Eyes: Irritating to eyes. Potential Health Hazards:

Inhalation: Inhalation of dust in high concentration may cause irritation of respiratory

system.

Skin: May cause skin irritation.

Ingestion: May be irritating if swallowed.

NFPA Ratings (704):

Slight Health 1 Flammability 1 Slight Reactivity Minimal





Specific Hazard N/A

COMPOSITION/INFORMATION ON INGREDIENTS

CAS No. Molecular Weight Component Weight %

Butylated hydroxytoluene 128-37-0 220.34

FIRST AID MEASURES

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Ig eye irritation persists, consult a specialist.

Inhalation: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call

a physician.

Skin: Wash off skin with soap and water. Get medical attention if irritation develops or persists. Wash contaminated

clothing before reuse.

Ingestion: 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.

FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Special protective equipment & precautions for firefighters:

Flash Points:

Specific hazards arising from the

chemical:

Explosive Properties:

Combustible material: may burn but does not ignite easily. Use appropriate media (foam, carbon dioxide, dry chemical) for adjacent fire. Do not use water.

Wear self-contained, approved breathing apparatus and full protective clothing, including eye

protection and boots.

118°C / 244°F (closed cup)

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. 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.

ACCIDENTAL RELEASE MEASURES

Personal precautions, protective

equipment & emergency procedures:

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.

Environmental precautions: 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.

Methods and material for containment and cleaning up:

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.

HANDLING & STORAGE

Precautions for safe handling:

Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts 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.

Conditions for safe Keep container tightly closed and in a cool, well ventilated place. Keep away from heat and incompatible





storage, incl. any incompatibilities: materials (see section 10 for incompatibilities).

EXPOSURE CONTROLS / PERSONAL PROTECTION

Component **Exposure Limits** Basis **Entity** Butylated hydroxytoluene 2 mg/m^3 TWA ACGIH TLV (inhalable fraction & vapor) 10 mg/m³ **NIOSH REL TWA** 10 mg/m³ (vacated) TWA **OSHA PEL** 2 mg/m^3 TWA Ontario TWA 2 mg/m^3 TWA Korea 10 mg/m³ Australia 10 mg/m³ Mexico: TWA Mexico 20 mg/m³ Mexico: STEL Mexico 2 mg/m^3 TWA Argentina 2 ppm **TWA** Venzuela

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: Safety glasses with side shields. Molten form: Goggles; Face shield.

Inhalation: 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.

Body: Long sleeved clothing should be worn. Impervious gloves should be worn.

Other: Use good personal hygiene practices. Provide eyewash stations, quick-drench showers and washing facilities

accessible to areas of use and handling.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance @ 20°C: White crystalline powder or

granules

Odor: Mild

Odor Threshold: No data available

Color: clear Molecular Weight: 220.34

7.2 (5% solution) pH:

Boiling Point: 265°C / 509°F Melting Point/Range: 69-70°C (156-158°F) Relative Density: 37.5 lbs/cu ft

Partition Coefficient: n-5.1

octanol/water:

Viscosity (dynamic): 3.45 cSt @ 80°C

1.54 cSt @ 120°C No data available

Oxidizing Properties:

Flammable Properties: Combustible material: may burn but does not ignite

readily

Vapor Pressure: <0.01 mmHg @ 20°C

Vapor Density: 7.6

Evaporation Rate: No data available Flammability: No data available Upper/lower Explosive Limit: Not applicable

Solubility in Water: Practically insoluble (0.4-1.14

mg/L)

118°C / 244°F Flash Point (closed cup): Specific Gravity: No data available 470°C / 878°F Auto-Ignition Temperature: **Decomposition Temperature:** No data available

Explosive Properties: No data available

Freezing Point: No data available





Dust Explosion Properties: Maximum explosion overpressure: 7-9 Pm (bar)

Maximum Rate of Pressure Rise: 800-1300 [dP/dt (bar/s)]

Dust deflagration index (Kst): 200-350 [bar.m/s] Minimum ignition energy (MIE): 10-25 (mJ) Lower explosion limit: 10-20 [M.E.C. (g/m³)]

STABILITY AND REACTIVITY

Reactivity: No data available

Stable under normal conditions. Chemical Stability:

Hazardous Polymerization: Does not occur.

Conditions to Avoid: Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

Incompatible Materials: Strong acids, strong bases, oxidizing agents, reducing agents.

Hazardous Decomposition Products: Possible formation of carbon oxides, nitrogen oxides, and hazardous organic compounds.

TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available LD50: >2000 mg/kg Skin: Eyes: No data available No data available Respiratory: LD50: >6000 mg/kg Ingestion:

Carcinogenicity: Contains no ingredient listed as a carcinogen.

Teratogenicity: No data available Germ Cell Mutagenicity: None known **Embryotoxicity:** No data available

Specific Target Organ Toxicity: Eyes, Lungs, Liver, Kidney, Thyroid

Reproductive Toxicity: None expected Respiratory/Skin Sensitization: None known Corrosivity: No data available Sensitization: No data available

Irritation: Irritating to eyes. Inhalation of dust in high concentration may cause irritation of respiratory

system.

Repeated Dose Toxicity: Repeated oral exposure at doses greater than 25 mg/kg/day resulted in growth depression and

functional and histological changes to the lung, liver, kidneys, and thyroid.

May cause nausea, vomiting, gastro-intestinal distress, and narcotic effects if ingested in large Other Adverse Effects:

doses well above the acceptable daily intake (ADI) of 0.3 mg/kg bw/day.

12 ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate: LC50: 5 mg/L (48h) (Oryzias latipes)

Aquatic Invertebrate: EC50: 0.48 mg/L (48h) (Daphnia magna) (immonilization) Terrestrial: EC50: 6 mg/L (72h) (Pseudokirchneriella subcapitata) EC50: >0.42 mg/L (72h) (Desmodesmus subsicatus)

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: The product may be accumulated in organisms. Bioconcentration Factor (BCF): BCF: 230-2500 [(fish) 56 days]. Log Pow: 5.1

Mobility in Soil: No data available PBT and vPvB Assessment: No data available

Other Adverse Effects: May cause long term adverse effects in the aquatic environment.

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 product container.

Product Containers: 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

TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA): Not regulated

TDG (Transportation of Dangerous Goods, Canada): No data available

IMDG (International Maritime Dangerous Goods): 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

IATA (International Air Transport Association): UN/ID No.: 3077

Proper shipping name: Environmentally Hazardous Substance, Solid, n.o.s.

(Butylated Hydroxytoluene)

Hazard class: 9 Packing group: III UN/ID No.: 3077

ICAO (International Civil Aviation Organization):

Proper shipping name: Environmentally Hazardous Substance, Solid, n.o.s.

(Butylated Hydroxytoluene)

Hazard class: 9 Packing group: III

ADR/RID: Proper shipping name: Environmentally Hazardous Substance, Solid, n.o.s.

(Butylated Hydroxytoluene)

Hazard class: 9 UN/ID No.: 3077 Packing group: III

REGULATORY INFORMATION

TSCA Inventory Status: Complies Complies DSCL (EEC):

WHMIS (Canada): No data available

EU EINECS/ELINCS/NLP: Complies Complies China IECSC: Complies China IECIC (06.30.2014): Australia AICS: Complies Korea KECL: Complies **Philippines PICCS:** Complies

SARA 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.

SARA 311/312 Hazard

Acute Health Hazard: Yes Categories: Chronic Health Hazard: No.

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

Clean Water Act: 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)

CERCLA: This material, as supplies, 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.

OTHER INFORMATION





Revision Date: 26-Aug-2020

Compliance: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication

Standard 29 CFR 1910.1200

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in

combination with any other materials or in any other process. Such information is to be the best of the

company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitableness & completeness of such information for his own

particular use.