

BHT

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

Revision Date: 17-Jan-2025
Supersedes: 04-Dec-2024

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: BHT
Synonyms: No data available
INCI Name: Butylated hydroxytoluene
CAS Number: 128-37-0
Formula: C₁₅H₂₄O
Product Form: Solid
Product Use: Cosmetic use

Distributor: MakingCosmetics 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 hazard, Category 1
Chronic aquatic hazard, Category 1

GHS Signal Word:

WARNING!

GHS Hazard Pictograms:



GHS Hazard Statements:

H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H410: Very toxic to aquatic life with long lasting effects.
GHS Precautionary Statements: P261: Avoid breathing dust/vapors.
P264: Wash hands 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 protective gloves, protective clothing, face protection and eye protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove victim 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/attention.
P337 + P313 IF eye irritation persists: get medical advice/attention.
P363 Wash contaminated clothing before re-use.
P391 Collect spillage. Hazardous to the environment.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance.

Potential Health Hazards:

Eyes: Causes serious eye irritation
Inhalation: May be an irritant.
Skin: May be an irritant.
Ingestion: May cause nausea, vomiting, and diarrhea.

NFPA Ratings (704):

Health	N/A	N/A
Flammability	N/A	N/A
Reactivity	N/A	N/A
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	100%	Not available

4 FIRST AID MEASURES

Eyes:	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical attention if eye irritation develops or persists. Seek medical attention if necessary.
Inhalation:	Remove from exposure to fresh air immediately. Allow victim to rest in a well-ventilated area. Seek medical attention if necessary.
Skin:	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Wash contaminated clothing before reusing. Seek medical attention if necessary.
Ingestion:	Do Not Induce Vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water and drink plenty of water afterwards. Seek medical attention if necessary.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	May be combustible at high temperatures. Use appropriate media (water spray, carbon dioxide, dry chemical fire extinguisher) for surrounding environment and adjacent fire. No unsuitable extinguish media listed.
Special protective equipment & precautions for firefighters:	Wear helmet with visor and self-contained breathing apparatus and full protective clothing including antifire paint jacket and trousers, eye protection, and boots. Avoid inhaling the fumes. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely. Wear helmet with visor, antifire paint jacket and trousers. Use self-containing breathing apparatus to protect the respiratory system.
Flash Points:	260.6 °F (127 °C)
Specific hazards arising from the chemical:	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 also Stability and reactivity section (Section 10).

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	Evacuate personnel to safe areas. Use 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 released 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. Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions:	Prevent further leakage or spillage 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 rivers and lakes or drains inform respective authorities. Avoid liquid release into sewers/public water/environment. Notify environmental authorities in case of leak.
Methods and material for containment and cleaning up:	Wash with plenty of water. Use personal protective equipment and take precautionary measures against static discharges. Avoid dust formations. Clean contaminated surface thoroughly. Dispose of absorbed material in accordance with the regulations.

7 HANDLING & STORAGE

Precautions for safe handling:	Avoid contact with skin and eyes, and inhalation of vapors and mists. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. Contaminated clothing should be changed before entering eating areas. Do not
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Conditions for safe storage, incl. any incompatibilities:

eat or drink while working. See also section 8 for recommended protective equipment. Use good personal hygiene practice. See section 8 for recommendations on the use of personal protective equipment. Store in cool dark place away from moisture, oxidizing agents and alkaline atmosphere. Adequately ventilated premises and complete of eyewash fountain and emergency shower. Dispose on suitable floors and provided of spillage basins. Keep containers tightly closed. Store away from incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Component BHT

Exposure Limits Not available

Basis

Entity

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 eye glasses with side protection.
Inhalation: Wear filtering Half-face mask (DIN EN 149) for dusts (P3). Filtering half masks (EN 405) for vapors/dusts (FFA2P3) (UNI EN 405).
Body: Wear protective gloves made of nitrile or butyl rubber or PVC. Typical breakthrough times >60. The selection of the suitable gloves does not only depend on material, but also on further marks of quality & varies by manufacturers. Observe data on water resistance and penetration of the supplier. Consider the risk of cuts, abrasion, & contact time. Thickness recommended guideline for uses 0.39 mm medium duty. Wear disposable suit.
Other: Use good personal hygiene practices. Adopt dust extraction from the working environment. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White	Vapor Pressure at 20 °C:	0.01 mm Hg
Odor:	Faint characteristic odor	Vapor Density:	No data available
Odor Threshold:	No data available	Evaporation Rate:	No data available
Color:	No data available	Flammability:	No data available
Molecular Weight:	220.35	Upper/lower Explosive Limit:	No data available
pH:	No data available	Flash Point:	260.6 °F (127 °C)
Boiling Point/Range:	265 °C	Specific Gravity:	No data available
Melting/Freezing Point:	156-163°F (69-73 °C)	Water Solubility:	No data available
Relative Density:	No data available	Auto-Ignition Temperature:	878°F (470 °C)
Partition Coefficient: n-octanol/water:	No data available	Decomposition Temperature:	No data available
Viscosity:	No data available	Explosive Properties:	No data available
Oxidizing Properties:	No data available	Metal Corrosion:	No data available

10 STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions.
Chemical Stability: Stable under normal conditions.
Hazardous Polymerization: No data available.
Conditions to Avoid: Stable under normal conditions.
Incompatible Materials: Oxidizing products and concentrated alkalis.
Hazardous Decomposition Products: None.
Possible Hazardous Reactions: It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth), nitrides and powerful reducing agents. It may catch fire on contact with oxidizing mineral acids.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available.

Skin:	No data available.
Eyes:	No data available.
Inhalation:	No data available.
Ingestion:	(Mouse, Oral) LD50/LC50: 128-37-0; LD50 = 650 mg/kg. (Rat, Oral) LD50 = 890mg/kg.
Carcinogenicity:	No data available.
Teratogenicity:	No data available.
Germ Cell Mutagenicity:	No data available.
Embryotoxicity:	No data available.
Specific Target Organ Toxicity:	No data available.
Reproductive Toxicity:	No data available.
Sensitization:	No data available.
Corrosivity:	No data available.

12 ECOLOGICAL INFORMATION

Ecotoxicity:	Adopt good working practices, so that the product is not released into the environment. Very toxic to aquatic life with long lasting effects.
Aquatic Vertebrate:	(Oryzias latipes) LC50 48 hours: = 5 mg/L.
Aquatic Invertebrate:	(Daphnia magna) EC50 48 hours: = 0.48 mg/L (immobilization).
Aquatic Algae:	(Pseudokirchneriella subcapitata) EC50 72 hours: = 6 mg/L. (Desmodesmus subspicatus) EC50 72 hours: > 0.42 mg/L.
Persistence and Degradability:	None.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
PBT and vPvB Assessment:	None.
Other Adverse Effects:	None.

13 DISPOSAL CONSIDERATIONS

Waste Residues:	Recover if possible. In so doing, comply with the local and national regulations currently in force. 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.
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

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Butylated Hydroxytoluene) UN Number: 3077 Packing group: III Hazard Class: 9 Environmental Pollutant
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) UN Number: 3077 Packing group: III Hazard Class: 9 Marine Pollutant
IATA (International Air Transport Association):	Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Butylated Hydroxytoluene) UN Number: 3077 Packing group: III Hazard Class: 9

ICAO (International Civil Aviation Organization): No data available.

15 REGULATORY INFORMATION

TSCA Inventory Status:	Listed.
U.S. Federal Regulations	This product is known to be a "Hazardous Chemical" as defined by the OSHA Hazard
OSHA:	Communication Standard, 29 CFR 1910.1200.
CERCLA:	Not listed under Hazardous Substance List (40 CFR 302.4).
SARA 304:	Not listed under Emergency Release Notification.
SARA 302:	Not listed under Extremely Hazardous Substance.
SARA 311/312 Hazardous Chemicals:	BHT (CAS 128-37-0) Fire, Acute.
SARA 313 (TRI Reporting):	Not listed.
SARA 1986:	Not listed under Superfund Amendments and Reauthorization Act of 1986.
OSHA:	Not listed under OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050).
Clean Air Act (CAA):	Not listed under Section 112(r) Accidental Release Prevention (40 CFR 68-130) or Section 112 Hazardous Air Pollutants (HAPs) List.
Safe Drinking Water Act:	Not listed under (SDWA).
MA Right to Know:	Not listed.
NJ Right to Know:	Listed.
PA Right to Know:	Listed.
Rhode Island Right to Know:	Listed.
Canada (DSL):	Listed.
Canada (NDSL):	Not listed.

16 OTHER INFORMATION

Revision Date:	17-Jan-2025
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 suitability & completeness of such information for his own particular use.