

Behentrimonium

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

Revision Date: 06-Jan-2026
Supersedes: 17-Nov-2025

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Behentrimonium
Synonyms: No data available
INCI Name: Behentrimonium Chloride (and) Ethyl Alcohol
CAS Number: 17301-53-0, 64-17-5
Formula: No data available
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

Classification: Skin Corrosion/Irritation: Category 2
Eye Damage: Category 1
Flammable Solid: Category 1, 2
Aquatic Hazard - Acute: Category 1
Aquatic Hazard - Long-term: Category 1
Signal Word: DANGER!



Hazard Statements:
H315: Causes skin irritation.
H318: Causes serious eye damage.
H373: May cause damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.

Precautionary Statements:
P260: Do not breathe dust/fume/gas/mist/vapors/spray
P264: Wash thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear Protective gloves/protective clothing/eye protection/face protection.
P302 + P352 + P361 + P363: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
P310: Immediately call a POISON CENTER or doctor/physician.
P314: Get medical advice/attention if you feel unwell.
P333: If skin irritation occurs: get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
P391: Collect spillage.
P404: Store in a closed container.
P501: Dispose of contents/container to comply with local, state, and federal regulations.

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

NFPA Ratings (704):

Health	2	Moderate
Flammability	4	Extreme
Reactivity	0	Minimal
Specific Hazard	N/A	

HMIS Ratings:

Health	2	Moderate
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Flammability	3	Serious
Reactivity	0	Minimal
Personal Protection	B	

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	Molecular Weight
Behentrimonium Chloride	17301-53-0	78 - 85%	Not Available
Ethyl Alcohol	64-17-5	16 - 21%	Not Available
Water	7732-18-5	<2%	Not Available

4 FIRST AID MEASURES

Eyes:	Flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.
Inhalation:	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration using a pocket mask type resuscitator. Call a physician immediately.
Skin:	Immediately remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
Ingestion:	Do Not Induce Vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	May be combustible at high temperatures. Use appropriate media (spayed water jet, foam, dry powder, CO ₂) for the surrounding environment and the adjacent fire. No unsuitable extinguishing media listed.
Special protective equipment & precautions for firefighters:	Wear self-contained breathing apparatus and full protective clothing, including eye protection and boots. Avoid inhalation of materials or combustion by-products. Cool containers with water until well after fire is out. Do not approach the tank surrounded by fire until it is extinguished. In case of conflagration, use automatic fire sprinkler. Major fire may require withdrawal, allowing the object itself to burn. Keep unauthorized personnel out.
Specific hazards arising from the chemical:	See also Stability and reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	Do not touch spilled material. Stop leak if you can do it without risk. Handle the damaged containers or spilled material after wearing appropriate protective equipment. Move container to safe area from the leak area. Must work against the wind, let the upwind people to evacuate. Remove all sources of ignition. 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:	Avoid liquid release into sewers/public water/environment. Notify environmental authorities in case of leak.
Methods and material for containment and cleaning up:	Use appropriate container for disposal of spilled material collected. Disposal of waste shall be in compliance with the Wastes Control Act. Dust spills: Cover dust spills with plastic sheet or waterproof cloth to minimize spreading and avoid contact with water. Large spill: Stay upwind and keep out of low areas. Dike for later disposal. Notify the central and local government if the emission reaches the standard threshold. Dispose of absorbed material in accordance with the regulations.

7 HANDLING & STORAGE

Precautions for safe handling:	Avoid contact with incompatible materials. Avoid direct physical contact. Comply with all applicable laws and regulations for handling. Dealing only with a well-ventilated place. Do not handle until all safety precautions have been read and understood. See section 8 for recommendations on the use of personal protective equipment.
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Conditions for safe storage, incl. any incompatibilities: Avoid direct sunlight. Check regularly for leaks. Do not apply any physical shock to container. Do not apply direct heat. Do not use damaged containers. Avoid prolonged exposure to heat and air. Store away from incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Exposure Limits	Basis	Entity
Ethanol	1900 mg/m ³	PEL	OSHA
	1000 ppm	PEL	OSHA
	1000 ppm (1880 mg/m ³)	TLV	STEL

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 safety glasses.

Inhalation: Wear dust mask with particle filter.

Body: Wear suitable gloves and full protective clothing.

Other: Use good personal hygiene practices. Use with local exhaust ventilation. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid	Vapor Pressure:	33.00
Odor:	No data available	Vapor Density:	No data available
Odor Threshold:	No data available	Evaporation Rate:	No data available
Color:	No data available	Flammability:	Undetermined
Molecular Weight:	No data available	Upper/lower Explosive Limit:	No data available
pH:	4 - 8	Flash Point:	No data available
Boiling Point:	No data available	Specific Gravity:	No data available
Melting Point:	No data available	Water Solubility:	Insoluble
Relative Density:	No data available	Auto-Ignition Temperature:	No data available
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: No data available.

Chemical Stability: This material is stable under recommended storage and handling conditions.

Hazardous Polymerization: No data available.

Conditions to Avoid: Avoid: Accumulation of electrostatic charges, heating, flames and hot surfaces. Avoid contact with incompatible materials and condition.

Incompatible Materials: No data available.

Hazardous Decomposition Products: May emit flammable vapor if involved in a fire.

Possible Hazardous Reactions: No data available.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available.

Skin: Product (ATEmix): >5000mg/kg. Contact causes skin irritation with redness, swelling and scaling.

Eyes: Can cause severe injury - damage reversible.

Inhalation: ATEmix: 5.0 mg/L < ATEmix ≤ 12.5mg/L.
(Rat) Ethanol: LC50 = 59.59 mg/L/4 hour (HSBD).

Ingestion: ATEmix: 2000mg/kg < ATEmix ≤ 5000mg/kg.
[Quaternary ammonium compounds, alkyl (C=20-22) trimethyl, chlorides]: Rat (F) LD50 = 3190

Carcinogenicity:	mg/kg bw (OECD TG 401) (ECHA chem).
Teratogenicity:	Not listed on NTP, IARC, OSHA, or GHS.
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.
Chronic Toxicity:	False.

12 ECOLOGICAL INFORMATION

Ecotoxicity:	Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Aquatic Vertebrate:	(Danio Rerio) [Quaternary ammonium compounds, alkyl (C=20-22) trimethyl, chlorides]: LC50: 3.5 mg/L; 96 hours (OECD TG 203, GLP).
Aquatic Invertebrate:	(Daphnia Magna) [Quaternary ammonium compounds, alkyl (C=20-22) trimethyl, chlorides]: EC50 = 1.39 mg/L; 48 hours (OECD TG 202, GLP). (Ceriodaphnia dubia) [Ethanol] LC50 5012 mg/L; 48 hours (other guidelines: ASTM E729-80) (ECHA).
Terrestrial:	(Desmodesmus subspicatus) [Quaternary ammonium compounds, alkyl (C=20-22) trimethyl, chlorides]: EC50 = 3.48 mg/L; 72 hours (Growth rate) (OECD TG 201, GLP) (ECHA Chem) (Chlorella vulgaris) [Ethanol]: ErC50 275 mg/L; 72 hours (OECD Guideline 201) (ECHA).
Persistence and Degradability:	Persistence: [Quaternary ammonium compounds, alkyl (C=20-22) trimethyl, chlorides]: log kow = 3.29 (20 °C, pH5.4) (ECHA chem). Persistence: [Ethanol]: log Kow -0.32 (ICSC) -[Water]: log Kow = -1.38 (HSDB). Degradability: [Ethanol]: ErC50 275 mg/L; 72 hours Chlorella vulgaris (OECD Guideline 201) (ECHA).
Bioaccumulative Potential:	[Ethanol]: BCF 1 (ECHA). Biodegradation [Quaternary ammonium compounds, alkyl (C=20-22) trimethyl, chlorides]: 21%, 28 days (OECD TG 301 B, GLP). Biodegradability [Ethanol] = 75% 20 days (Aerobic, Other, readily biodegradable) (IUCLID).
Mobility in Soil:	No data available.
PBT and vPvB Assessment:	No data available.
Other Adverse Effects:	No data 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 product. Regulations may vary by location.
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. Regulations may vary by location.

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):	UN Number: UN 3077 Hazard Class: 9 Packing Group: II Proper Shipping Name: UN3077 Environmentally Hazardous Substance, Solid, N.O.S. (Behentrimonium Chloride, Alcohol), 9, PG III IMDG Code/IATA GDR Packing Group: III
TDG (Transportation of Dangerous Goods, Canada):	No data available.
IMDG (International Maritime Dangerous Goods):	UN Number: UN 3077 Hazard Class: 9

IATA (International Air Transport Association):

Packing Group: II
Proper Shipping Name: UN3077 Environmentally Hazardous Substance, Solid, N.O.S. (Behentrimonium Chloride, Alcohol), 9, PG III
IMDG Code/IATA GDR Packing Group: III
UN Number: UN 3077
Hazard Class: 9
Packing Group: II
Proper Shipping Name: UN3077 Environmentally Hazardous Substance, Solid, N.O.S. (Behentrimonium Chloride, Alcohol), 9, PG III
IMDG Code/IATA GDR Packing Group: III
No data available.

ICAO (International Civil Aviation Organization):**15 REGULATORY INFORMATION**

TSCA Inventory Status:	In compliance with TSCA inventory requirements for commercial purposes.
OSHA Regulated Hazard:	No.
E C Classification:	Non-applicable.
SARA 312:	No regulated chemicals.
SARA 313:	No regulated chemicals.
EPA Registration Number:	Non-applicable.
California Prop. 65:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
States Right to Know:	None known under PA or NJ.
Additional Regulations:	None known.
Canada:	Non-applicable.

16 OTHER INFORMATION

Revision Date:	06-Jan-2026
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.