

Cetrimonium Chloride

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

Revision Date: 21-Sep-2026
Supersedes: 16-Sep-2026

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Cetrimonium Chloride
Synonyms: No data available
INCI Name: Water (and) Cetrimonium Chloride
CAS Number: 7732-18-5, 112-02-7
Formula: No data available
Product Form: Liquid
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:

Acute toxicity - Oral: Category 4
Skin corrosion/irritation: Category 1C
Serious eye damage/eye irritation: Category 1
Acute aquatic toxicity: Category 1
Chronic aquatic toxicity: Category 1

Signal Word:

DANGER!

GHS Hazard Pictograms:



GHS Hazard Statements:

H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

GHS Precautionary Statements:

(Prevention): P260: Do not breathe dusts or mists.
P264: Wash hands, forearms and face thoroughly after handling.
P270: Do not eat, drink, or smoke when using this product.
P273: Avoid release to the environment.
P280: Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.
(Response): P310: Immediately call a POISON CONTROL CENTER or doctor/physician.
P321: Specific treatment P330: Rinse mouth.
P363: Take off immediately all contaminated clothing and wash it before reuse.
P391: Collect spillage.
P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330+P331: If swallowed: rinse mouth. Do NOT induce vomiting
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse SKIN with water/shower.
P304+P340: IF INHALED: Remove person to fresh air and keep 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.
(Storage): P405: Store locked up.
(Disposal): P501: Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

Potential Health Hazards:

Eyes: Causes serious eye damage.
Inhalation: Not expected to be an irritant.
Skin: Causes skin irritation.
Ingestion: Harmful if swallowed. May cause burns, nausea, vomiting, and diarrhea.

NFPA Ratings (704):

Health 3 Serious

Flammability	1	Slight
Reactivity	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>
Water	7732-18-5	65 - 75%	Not Available
Cetrimonium Chloride	112-02-7	25 - 35%	Not Available

4 FIRST AID MEASURES

Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
Inhalation:	Remove person to fresh air and keep comfortable for breathing.
Skin:	Rinse skin with water/shower. Immediately remove/take off all contaminated clothing. Call a physician immediately.
Ingestion:	Rinse mouth. Do not Induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	May be combustible at high temperatures. Use appropriate media (water spray, dry powder, foam, carbon dioxide (CO ₂)) for adjacent fire. Do not use a solid water stream as it may scatter and spread fire.
Special protective equipment & precautions for firefighters:	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Flash Points:	> 199.94°F (93.3°C).
Specific hazards arising from the chemical:	In case of fires, hazardous decomposition products are formed: Carbon monoxide (CO), Carbon Dioxide (CO ₂), Hydrogen chloride (HCl), and Nitrous gases (NO _x). See also the Stability and Reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Do not attempt to clean up the leak without proper personal 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:	Stop leak, if possible, without risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Dispose of absorbed material in accordance with local/national regulations.

7 HANDLING & STORAGE

Precautions for safe handling:	Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Use good personal hygiene practices and appropriate personal protective equipment. See section 8 for recommendations on the use of personal protective equipment.
Conditions for safe storage, incl. any incompatibilities:	Always store product in container that is the same material as original container. Store the container in a cool, well-ventilated place away from heat. The product should be stored at temperatures between 50 - 104°F (10°C - 40°C). Store locked up. Store away from 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>
Cetrimonium Chloride	Not available		

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: Eye protection, such as safety glasses, are recommended.
Inhalation: In case of insufficient ventilation, wear suitable respiratory equipment.
Body: Wear suitable protective gloves and clothing.
Other: 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

Physical State:	Liquid	Viscosity (Kinematic)	No data available
Appearance:	Clear	Viscosity (Dynamic) @ 25 °C	< 10
Odor:	Mild odor	Vapor Pressure:	No data available
Odor Threshold:	No data available	Solubility:	Miscible
Color:	Colorless	Flammability (Solid, Gas):	Not applicable
pH (5% aqueous solution):	3.0 - 4.0	Auto-Ignition Temperature:	No data available
Flash Point:	> 199.94 °F (93.3 °C)	Explosive Properties:	None reported
Freezing Point:	No data available	Upper/lower Explosive Limit:	No data available
Boiling Point:	No data available	Particle Characteristics:	No data available
Melting Point:	Not applicable	Oxidizing Properties:	None reported
Decomposition Temperature:	No data available	Relative Density (@ 20 °C):	0.89 - 0.97
Partition Coefficient: n-octanol/water:	No data available	Relative Vapor Density at 20 °C:	No data available

10 STABILITY AND REACTIVITY

Reactivity:	This product is non-reactive under normal conditions of use, storage and transport.
Chemical Stability:	Stable under normal conditions.
Hazardous Polymerization:	No dangerous reactions known under normal conditions of use.
Conditions to Avoid:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	<i>Oral:</i> 1428.571 mg/kg body weight [ATE US]. Harmful if swallowed.
Skin:	
Component; Cetrimonium Chloride:	(<i>Rat, dermal</i>) LD50: >2,000 mg/kg. (<i>Rabbit, dermal</i>) LD50: 4300 mg/kg. (<i>Rabbit, dermal</i>) NOAEL: 10 mg/kg body weight; 90 days. Causes severe skin burns.
Eyes:	Causes serious eye damage.
Respiratory:	None under normal conditions.
Ingestion:	
Component; Cetrimonium Chloride:	(<i>Rat, oral</i>) LD50: 410mg/kg. (<i>Rat, oral</i>) NOAEL: 300 mg/kg (body weight)/day; 28 days. (<i>Rat, oral</i>) NOAEL: ≈ 113 mg/kg body weight; 90 days. Harmful if swallowed. Potential to cause burns.
Carcinogenicity:	Not classified.
Teratogenicity:	No data available.
Germ Cell Mutagenicity:	Not classified.
Embryotoxicity:	No data available.
Reproductive Toxicity:	Not classified.
Specific Target Organ Toxicity:	Not classified under single or repeated exposure.
Respiratory/Skin Sensitization:	Not classified.
Aspiration Hazard:	Not classified

12 ECOLOGICAL INFORMATION

Ecotoxicological Information:	Avoid release into the environment. Very toxic to aquatic life with long lasting effects.
Aquatic Vertebrate:	
Component; Cetrimonium Chloride:	(<i>Danio rerio</i>) LD50 = 0.59 mg/l [96 hours; static]. NOEC = 0.0322 mg/l (ECHA).
Aquatic Invertebrate:	
Component; Cetrimonium Chloride:	(<i>Daphnia magna</i>) EC50 = 280 µg/l. NOEC = ≥ 100 mg/l.
Aquatic Algae:	
Component; Cetrimonium Chloride:	(<i>Raphidocelis subcapitata</i>) EC50 [1]: ≈ 0.155 mg/l, 72 hours. EC50 ≈ 0.115 mg/l, 72 hours.
Persistence and Degradability:	Readily biodegradable.
Bioaccumulative Potential:	
Component; Cetrimonium Chloride:	3.08 (Log Pow).
Mobility in Soil:	
Component; Cetrimonium Chloride:	5.5 (Log Koc).
PBT and vPvB Assessment:	No data available.
Other Adverse Effects:	Not classified under ozone or Fluorinated Greenhouse Gases.

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.
Product Containers:	Do not re-use empty 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):	Not regulated.
Special Transport Precautions:	Per 49 CFR 173.150(f), this product is exempt from regulation by US DOT when shipped in the USA solely by land in containers less than 119 gallons.
TDG (Transportation of Dangerous Goods, Canada):	Regulated. UN Number: UN3082 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S Classes: 9 Dangerous to the environment. Packing Group: III
IMDG (International Maritime Dangerous Goods):	Regulated. UN Number: 3082 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S Classes: 9 Dangerous to the environment. Packing Group: III
IATA (International Air Transport Association):	Regulated. UN Number: 3082 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S Classes: 9 Dangerous to the environment. Packing Group: III
ICAO (International Civil Aviation Organization):	No data available.

15 REGULATORY INFORMATION

TSCA Inventory Status:	Listed.
Canada (DSL):	Listed.
China (IECSC):	Listed.
Australia (AICS):	Listed.
Japan (MITI):	Listed.
Korea (ECL):	Listed.
New Zealand (NZIoC):	Listed.
Taiwan (TSCI):	Listed.
California Proposition 65:	This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

16 OTHER INFORMATION

Revision Date:	21-Sep-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 suitability & completeness of such information for his own particular use.