

## Cetrimonium Chloride

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

Revision Date: 03-12-2019  
Supersedes: 08-21-2018

### 1 PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Cetrimonium Chloride  
**Synonyms:** Not available  
**INCI Name:** Cetrimonium chloride, water  
**CAS Number:** 112-02-7, 7732-18-5  
**Formula:** C<sub>19</sub>H<sub>42</sub>ClN  
**Product Form:** Liquid  
**Product Use:** Cosmetic use

**Distributor:** MakingCosmetics.com Inc.  
**Address:** 10800 231<sup>st</sup> 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 Tox. 4, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1, Skin Irrit. 2, STOT SE 3

**GHS Signal Word:** DANGER

**GHS Hazard Pictograms:**



**GHS Hazard Statements:**

H302: Harmful if swallowed  
H318: Causes serious eye damage  
H314: Causes severe skin burns and eye damage  
H410: Very toxic to aquatic life with long lasting effects  
H335: May cause respiratory irritation

**GHS Precautionary Statements:**

P281: Use personal protective equipment as required

**Potential Health Hazards:**

Eyes: Severe irritant.  
Inhalation: Irritant.  
Skin: Irritant.  
Ingestion: May be an irritant.

**NFPA Ratings (704):**

Health	2	Moderate
Flammability	0	Minimal
Reactivity	0	Minimal
Specific Hazard	n/a	

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	Molecular Weight
Cetrimonium chloride	36653-82-4	28-32%	242.45 g/mol
Water	7732-18-5	68-72%	18.02 g/mol

### 4 FIRST AID MEASURES

**Eyes:** Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes. Seek medical attention if irritation persists.  
**Inhalation:** Remove to fresh air. Seek medical attention if necessary.  
**Skin:** Wash skin with soap and water. Seek medical attention if symptoms occur.  
**Ingestion:** Seek medical attention if symptoms occur.

### 5 FIRE-FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media:** Dry chemical, foam, water spray, carbon dioxide  
**Special protective equipment & precautions for firefighters:** Firefighters should wear full protective clothing including self-contained breathing apparatus.  
**Flash Points:** Not available.  
**Specific hazards arising from the chemical:** None known.

## 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment &amp; emergency procedures:</b>	See section 8 for recommendations on the use of personal protective equipment.
<b>Environmental precautions:</b>	Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods and material for containment and cleaning up:</b>	Clean up with inert absorbent material and place into a separate waste container. Flush the area with warm water.

## 7 HANDLING & STORAGE

<b>Precautions for safe handling:</b>	Handle in accordance with good industrial hygiene and safety practices. Avoid contact with eyes.
<b>Conditions for safe storage, incl. any incompatibilities:</b>	Store in a cool, dry place. Prevent from freezing.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Cetrimonium chloride	N/A		

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, goggles, or face shield recommended for eye protection.
<b>Inhalation:</b>	Appropriate NIOSH approved respiratory protection may be worn.
<b>Body:</b>	Gloves and protective clothing should be worn to prevent prolonged skin contact.
<b>Other:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance, Physical State:</b>	Liquid	<b>Vapor Pressure:</b>	Not available
<b>Odor:</b>	Mild	<b>Vapor Density:</b>	Not available
<b>Taste:</b>	Not available	<b>Evaporation Rate:</b>	Not available
<b>Color:</b>	Clear	<b>Flammability:</b>	Not available
<b>Molecular Weight:</b>	242.45 g/mol	<b>Upper/lower Explosive Limit:</b>	Not available
<b>pH (2% water)</b>	4.5-5.0	<b>Solubility:</b>	Soluble in water
<b>Boiling Point:</b>	Approx 100°C	<b>Flash Point:</b>	Not available
<b>Melting Point:</b>	Not available	<b>Specific Gravity:</b>	Not available

## 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	Stable under normal conditions.
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions to Avoid:</b>	Excessive temperatures.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Oxides of carbon and nitrogen.

## 11 TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	Not available
<b>Skin:</b>	Not available
<b>Eyes:</b>	Not available
<b>Respiratory:</b>	Not available
<b>Ingestion:</b>	Not available
<b>Carcinogenicity:</b>	Not available

<b>Teratogenicity:</b>	Not available
<b>Germ Cell Mutagenicity:</b>	Not available
<b>Embryotoxicity:</b>	Not available
<b>Specific Target Organ Toxicity:</b>	Not available
<b>Reproductive Toxicity:</b>	Not available
<b>Respiratory/Skin Sensitization:</b>	Not available

## 12 ECOLOGICAL INFORMATION

### Ecotoxicity

<b>Aquatic Vertebrate:</b>	Not available
<b>Aquatic Invertebrate:</b>	Not available
<b>Terrestrial:</b>	Not available
<b>Persistence and Degradability:</b>	Not available
<b>Bioaccumulative Potential:</b>	Not available
<b>Mobility in Soil:</b>	Not available
<b>PBT and vPvB Assessment:</b>	Not available
<b>Other Adverse Effects:</b>	Not 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 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

## 14 TRANSPORT INFORMATION

<b>DOT (Dept. of Transportation, USA):</b>	Not dangerous goods
<b>TDG (Transportation of Dangerous Goods, Canada):</b>	Not regulated
<b>IMDG (International Maritime Dangerous Goods):</b>	Not regulated
<b>IATA (International Air Transport Association):</b>	Environmentally hazardous substance liquid. n.o.s n-hexadecyl-N,N,N-trimethylammoniumchloride; Class 9, Packing Group III, Labels 9Mi, Packing Instructions (cargo craft) 914, Packing Instructions (passenger aircraft) Y914
<b>ICAO (International Civil Aviation Organization):</b>	Environmentally hazardous substance liquid. n.o.s n-hexadecyl-N,N,N-trimethylammoniumchloride; Class 9, Packing Group III, Labels: 9; EmS Number 1 F-A; EmS Number 2 S-F; Marine Polltant: Yes

## 15 REGULATORY INFORMATION

<b>TSCA Inventory Status:</b>	Listed as Cetrimonium chloride.
<b>DSCL (EEC):</b>	This product is not classified according to the EU regulations. Not applicable.
<b>WHMIS (Canada):</b>	Not controlled under WHMIS (Canada)

## 16 OTHER INFORMATION

<b>Revision Date:</b>	03-12-2019
<b>Compliance:</b>	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
<b>Disclaimer:</b>	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.