

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: C₁₉H₄₂ClN
Product Form: Liquid
Product Use: Cosmetic use

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

Personal precautions, protective equipment & emergency procedures: See section 8 for recommendations on the use of personal protective equipment.

Environmental precautions: Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up: Clean up with inert absorbent material and place into a separate waste container. Flush the area with warm water.

7 HANDLING & STORAGE

Precautions for safe handling: Handle in accordance with good industrial hygiene and safety practices. Avoid contact with eyes.

Conditions for safe storage, incl. any incompatibilities: 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:

Eyes: Safety glasses, goggles, or face shield recommended for eye protection.

Inhalation: Appropriate NIOSH approved respiratory protection may be worn.

Body: Gloves and protective clothing should be worn to prevent prolonged skin contact.

Other: 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

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

10 STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions.

Chemical Stability: Stable under normal conditions.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Excessive temperatures.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Oxides of carbon and nitrogen.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: Not available

Skin: Not available

Eyes: Not available

Respiratory: Not available

Ingestion: Not available

Carcinogenicity: Not available



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

12 ECOLOGICAL INFORMATION

Ecotoxicity

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

DOT (Dept. of Transportation, USA):	Not dangerous goods
TDG (Transportation of Dangerous Goods, Canada):	Not regulated
IMDG (International Maritime Dangerous Goods):	Not regulated
IATA (International Air Transport Association):	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
ICAO (International Civil Aviation Organization):	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

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

16 OTHER INFORMATION

Revision Date: 03-12-2019

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.