

Section 1. Product and Company Identification

**Product Name** Choline Chloride  
**CAS Number** 67-48-1

**Parchem - fine & specialty chemicals**  
**415 Huguenot Street**  
**New Rochelle, NY 10801**  
📞 (914) 654-6800 📠 (914) 654-6899  
🌐 [parchem.com](http://parchem.com) ✉️ [info@parchem.com](mailto:info@parchem.com)

EMERGENCY RESPONSE NUMBER  
CHEMTEL  
Toll Free US & Canada: 1 (800) 255-3924  
All other Origins: 1 (813) 248-0585  
Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**GHS Classification**

Acute toxicity, Oral (Category 5)  
Skin irritation (Category 2)  
Eye irritation (Category 2A)  
Specific target organ toxicity - single exposure (Category 3)

**GHS Label Elements**

**Pictograms:**



**Signal word:** WARNING

**Hazard and precautionary statements**

**Hazard statements**

H303: May be harmful if swallowed.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.

**Precautionary statements**

P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264: Wash skin thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear protective gloves/ eye protection/ face protection.  
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.

P321: Specific treatment (see supplemental first aid instructions on this label).

P332 + P313: If skin irritation occurs, get medical advice/ attention.

P337 + P313: If eye irritation persists, get medical advice/ attention.

P362: Take off contaminated clothing and wash before reuse.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents/ container to an approved waste disposal plant.

**OSHA Hazards:** Irritant

**HMIS Classification**

**Health hazard:** 2

**Flammability:** 0

**Physical hazards:** 0

**NFPA Rating**

**Health hazard:** 2

**Fire:** 0

**Reactivity Hazard:** 0

**Potential Health Effects**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin:** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Ingestion:** May be harmful if swallowed.

Section 3. Composition / Information on Ingredients

<b>Common Name</b>	Choline Chloride
<b>Synonym(s)</b>	(2-Hydroxyethyl)trimethylammonium chloride
<b>Formula</b>	C <sub>5</sub> H <sub>14</sub> ClNO
<b>CAS Number</b>	67-48-1

Section 4. First Aid Measures

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Inhalation:** Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin contact:** Wash off with soap and plenty of water. Consult a physician.

**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.



**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5. Firefighting Measures

**Conditions of flammability:** Not flammable or combustible.

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products**

**Hazardous decomposition products formed under fire conditions:** Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Hydrogen chloride gas

Section 6. Accidental Release Measures

**Personal precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions:** Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal

Section 7. Handling and Storage

**Precautions for safe handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage:** Keep container tightly closed in a dry and well-ventilated place. Hygroscopic. Store under inert gas. Keep in a dry place.

Section 8. Exposure Controls / Personal Protection

**Exposure control:** Contains no substances with occupational exposure limit values

**Personal protective equipment**

**Respiratory protection:** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection:** Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection:** Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Section 9. Physical and Chemical Properties

**Appearance:** White powder

**pH:** 5.0 - 6.5 at 140 g/l at 25°C (77°F)

**Melting point/range:** 302 - 305°C (576 - 581°F) - dec.

**Boiling point:** No data available

**Flash point:** No data available

**Ignition temperature:** No data available

**Autoignition temperature:** No data available

**Lower explosion limit:** No data available

**Upper explosion limit:** No data available

**Vapor pressure:** No data available

**Density:** No data available

**Water solubility:** 140 g/l

**Partition coefficient (n-octanol/water):** No data available

**Relative vapor density:** No data available

**Odor:** No data available

**Odor Threshold:** No data available

**Evaporation rate:** No data available

#### Section 10. Stability and Reactivity

**Chemical stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** No data available

**Conditions to avoid:** No data available

**Materials to avoid:** Strong oxidizing agents, Strong acids, Strong bases

#### Hazardous decomposition products

**Hazardous decomposition products formed under fire conditions:** Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Hydrogen chloride gas

**Other decomposition products:** no data available



Section 11. Toxicological Information

**Acute toxicity**

**LD50 Oral:** Rat - 3,400 mg/kg

**Remarks:** Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Chromodacryorrhea.

**Behavioral:** Excitement. Respiratory disorder

**Inhalation LC50**

**Dermal LD50:** No data available

**Other information on acute toxicity:** No data available

**Skin corrosion/irritation:** No data available

**Serious eye damage/eye irritation:** No data available

**Respiratory or skin sensitization:** No data available

**Germ cell mutagenicity:** No data available

**Carcinogenicity**

**IARC:** No components of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No components of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No components of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No components of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** No data available

**Teratogenicity:** No data available

**Specific target organ toxicity - single exposure:** Inhalation may cause respiratory irritation.

**Specific target organ toxicity - repeated exposure:** No data available

**Aspiration hazard:** no data available

**Potential health effects**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion:** May be harmful if swallowed.

**Skin:** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Signs and Symptoms of Exposure:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects:** no data available



### Additional Information

**RTECS:** KH2975000

#### Section 12. Ecological Information

**Toxicity:** no data available

**Persistence and degradability:** no data available

**Bioaccumulative potential:** no data available

**Mobility in soil:** no data available

**PBT and vPvB assessment:** no data available

**Other adverse effects:** no data available

#### Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

#### Section 14. Transport Information

**DOT (US):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

#### Section 15. Regulatory Information

**OSHA Hazards:** Irritant

#### **SARA 302 Components**

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

**SARA 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Acute Health Hazard

**Massachusetts Right To Know Components:** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components:** Choline chloride, CAS-No. 67-48-1

**New Jersey Right To Know Components:** Choline chloride, CAS-No. 67-48-1

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 10/6/2015

