

Section 1. Product and Company Identification

**Product Name** L-Cysteine Hydrochloride Monohydrate  
**CAS Number** 7048-04-06

**Parchem - fine & specialty chemicals**

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EMERGENCY RESPONSE NUMBER  
CHEMTEL

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All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**Classification according to Regulation (EC) no. 1272/2008**

**Eye irritation:** Category 2, H319

**Skin irritation:** Category 2, H315

**Specific target organ toxicity - single exposure (Category 3):** H335

**GHS Label Elements**

**Pictograms:**



**Signal word:** WARNING

**Hazard and precautionary statements**

**Hazard statement**

**H315:** Causes skin irritation.

**H319:** Causes serious eye irritation

**H335:** May cause respiratory irritation.

**Precautionary statements**

**P261:** Avoid breathing dust.

**P305 + P351 + P338 If in eye:** Rinse cautiously with water for several minutes, remove contact lenses (if present and easy to do) and continue rinsing.

**Other hazards:** No information available



Section 3. Composition / Information on Ingredients

**Common Name** L-Cysteine Hydrochloride Monohydrate  
**Synonym(s)** L-Cysteine Monohydrate Monohydrochloride  
**Formula**  $C_3H_7NO_2S \cdot HCl \cdot H_2O$   
**CAS Number** 7048-04-06

COMPONENT	CAS NUMBER	CONCENTRATION
L-Cysteine Hydrochloride Monohydrate	7048-04-06	> 99.0%

Section 4. First Aid Measures

**Description of first aid measures**

**General recommendation:** Avoid contact

**After inhalation:** Remove individual to fresh air

**After skin contact:** Wash area thoroughly with soap and plenty of water. Get medical attention if irritant develops.

**After eye contact:** Flush eyes with water for at least 15 minutes. If irritant occurs consult physician or immediately call in ophthalmologist

**After swallowing:** Wash out mouth with water, immediately make victim drink water (two glasses at most), If symptoms persist consult medical personnel

**Most important symptom and effect, both acute and delayed:** Irritation and corrosion

**Indication of immediate medical attention and special treatment needed:** No information available

Section 5. Firefighting Measures

**Extinguishing media**

**Suitable extinguishing media:** Water spray, carbon dioxide (CO<sub>2</sub>), chemical foam, dry chemical, alcohol-resistant foam

**Unsuitable extinguishing media:** No information available

**Special hazards arising from the substance or mixture:** Combustible material and development of hazardous combustion gases or vapors possible in the event of fire

**Advice for firefighter**

**Special Fire Fighting Procedure:** Should wear protective clothing and respiratory protection

**Further information:** knock down gases/vapors/mists with water spray jet

Section 6. Accidental Release Measures

**Personal precaution, proactive equipment and emergency procedures:** Avoid dust



formation and inhalation of dust, avoid substance contact, and ensure adequate ventilation

**Environmental precaution:** Do not let product enter drains

**Methods and materials for contaminant and cleaning up:** Sweep up and shovel, keep in suitable and closed containers for disposal, do not let this chemical enter the environment and avoid generation of dusts

#### Section 7. Handling and Storage

**Precaution for safe handling:** Avoid contact with skin and eyes, do not breath dust, vapors or spray mist, do not ingest. Use with appropriate ventilation, chemicals resistant gloves, and eye protection.

**Condition for safe storage, including any incompatibilities:** Recommended to be stored in clean, cool, dry condition, and well-ventilated area to avoid dust generation. Do not store above 24°C (75.2°F)

#### Section 8. Exposure Controls / Personal Protection

**Control parameters:** This product does not contain any substance with occupational exposure limit value.

##### Exposure controls

**Engineering measures:** Provide adequate mechanical ventilation to avoid dust generation, especially in confined areas and appropriate working operations should be given priority over the use of personal protective equipment.

##### Individual protection measure

**Hygiene measure:** Change contaminated clothing, preventive skin protection recommended, wash hands after working with substance

**Eye/face protection:** Wear appropriate eye protection to avoid potential direct eye contact (safety glasses)

**Hand protection:** Wear appropriate protective gloves

**Skin & body protection:** Wear appropriate protective gloves and clothing to protect against skin exposure

**Respiratory protection:** Required when dusts are generated, recommended to follow the OSHA respiratory regulation found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritant or other symptoms are experienced.

#### Section 9. Physical and Chemical Properties

**Appearance and Odor:** White crystalline powder and odorless

**Molecular Weight:** 175.63 g/mol

**pH:** 1.0 ~ 2.0 at 25°C (77°F)

**Index of refraction:** No information available

**Boiling point:** 409.1°C (794°F) at 760 mmHg

**Melting point:** 176°C (349°F)  
**Flash point:** No information available  
**MIE (Minimum Ignition Energy):** No information available  
**P max:** No information available  
**K st:** No information available  
**Explosion class:** No information available  
**Solubility in Water at 250°C:** Soluble in water (100g/L)  
**Enthalpy of Vaporization:** No information available  
**Evaporation Rate:** None  
**Bulk Density:** 0.8 g/ml

#### Section 10. Stability and Reactivity

**Reactivity:** Reacts with strong oxidizers  
**Chemical Stability:** Stable under recommended storage condition  
**Possibility of hazardous reactions:** Strong oxidizers  
**Conditions to avoid:** Exposure to light, exposure to moist air or water and strong heating (decomposition)  
**Incompatible materials:** Strong oxidizers  
**Hazardous decomposition product:** Carbon monoxide, carbon dioxide, nitrogen oxide and in the event of fire as mentioned in section 5

#### Section 11. Toxicological Information

##### Information on toxicological effect

##### Acute toxicity

**Product Information:** No acute toxicity information is available for this product

##### Chronic exposure

**Carcinogenicity:** There are no known carcinogenic chemicals in this product

**Irradiation & corrosion:** Not Available

**Mutagenic effect:** Not Available

**Sensitization:** Not Available

**Sign and symptoms of exposure:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Further information:** This is a semi-essential amino acid which is frequently found in natural protein

#### Section 12. Ecological Information

**Toxicity:** Not toxic for wild animals and plants

**Persistence and degradability:** High bio degradable

**Bioaccumulative potential:** No information available



**Mobility in soil:** No information available

**Result of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effect:** We do not have quantitative data concerning the ecological effects of this product

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

**Proper delivering name:** CJ L-Cysteine Hydrochloride Monohydrate

**Proper delivering condition:** Stored in closed and sealed container

**Means of transportation**

**Sea:** By ship

**Air:** By airplane

No classified as dangerous in the meaning of transport regulations

Section 15. Regulatory Information

**Safety, health and environmental regulation/legislation specific for the substance or mixture**

**TSCA:** Not listed.

**SARA:** Not listed

**CERCLA:** Not listed.

**Clean Water Act:** Not listed as hazardous under clean water act.

**Clean Air Act:** Not listed as a hazardous air pollutant

**Chemical safety assessment:** For this product a chemical safety assessment was not carried out

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: 1/30/2018