



Material Safety Data Sheet

L-Cysteine Hydrochloride Anhydrous MSDS

1. SUBSTANCE IDENTIFICATION

- 1.1. Product Name: [L-Cysteine Hydrochloride Anhydrous](#)
- 1.2. Description: L-Cysteine Hydrochloride Anhydrous is a organic salt of amino acid manufactured through chemical synthesis.
- 1.3. Chemical Formula: $\text{HSCH}_2\text{CH}(\text{NH}_2)\text{COOH} \cdot \text{HCl}$
- 1.4. Molecular weight: 157.62
- 1.5. CAS #: 52-89-1
- 1.6. EINECS #: 200-157-7
- 1.7. Manufactured by: Foodchem International Corporation, Shanghai China.
- 1.8. Supplied by: Foodchem International Corporation, Shanghai China.
- 1.9. Usage: In food as Nutrition supplements

2. Composition

- 2.1. L-Cysteine Hydrochloride Anhydrous: 98.0%
- 2.2. Hazardous impurities: Ammonium 0.02%, Sulfate 0.020%, Heavy metals 10 PPM, Arsenic 1PPM

3. Physical/Chemical Characteristics

- 3.1. Physical State: Powder
- 3.2. Appearance: White crystalline powder
- 3.3. Odor: Odorless
- 3.4. pH: Not available
- 3.5. Melting point/range: 176 ° C
- 3.6. Boiling point: Not available
- 3.7. Bulk density: Not available
- 3.8. Solubility: Soluble in cold water.

4. Stability/Reactivity

- 4.1. Chemical Stability: Stable under normal temperatures and pressures
- 4.2. Shelf Life: 24 months period
- 4.3. Hazardous decomposition: Carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), sulfur oxides
- 4.4. Hazardous polymerization: Will not occur
- 4.5. Incompatible with: Not available

5. Handling/Storage

- 5.1. Storage: stored in tight containers at controlled room temperature.
- 5.2. Handling precaution: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment.

6. Exposure Control

- 6.1. Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- 6.2. Respiratory protection: NIOSH/MSHA or European Standard EN 149 approved respirator
- 6.3. Eye Protection: Protective eyeglasses or chemical safety goggles
- 6.4. Skin Protection: Wear appropriate protective gloves and clothes to minimize skin contact.
- 6.5. Other: Consult professionals if L-Cysteine Hydrochloride Anhydrous need to be handled under some special conditions.



7. Hazards Identification

- 7.1. Hazardous overview: L-Cysteine Hydrochloride Anhydrous is Very hazardous in case of ingestion
- 7.2. Contact with eyes: May cause eye irritation.
- 7.3. Contact with skin: May cause skin irritation.
- 7.4. Ingestion: May cause irritation of the digestive tract.
- 7.5. Inhalation: May cause respiratory tract irritation.
- 7.6. Other: Not Applicable

8. First Aid Measures

- 8.1. Contact with eyes: Flush immediately with plenty of water for 15 minutes and seek medical advice
- 8.2. Contact with skin: Wash the affected area with water, remove contaminated clothing and launder before re-use. Seek medical advice if irritation develops or persists.
- 8.3. Ingestion: Rinse mouth thoroughly with water and drink water afterwards.
- 8.4. Inhalation: Remove from exposure, move to fresh air and seek medical advice immediately.

9. Fire and Explosion Data

- 9.1. General information: May be combustible at high temperature
- 9.2. Flash point: Not available
- 9.3. Ignition control: Avoid ignition sources where L-Cysteine Hydrochloride dust might be generated
- 9.4. Dust control: Keep the handling area with adequate ventilation
- 9.5. Extinguishing Media: Water spray, dry chemical or carbon dioxide
- 9.6. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container

10. Transport Information

- 10.1. No special requirements and no restrictions on transportation by land, sea or air.

11. Ecological Information

- 11.1. L-Cysteine Hydrochloride is fully biodegradable and the products of degradation are more toxic.

12. Other Information

- 12.1. This Safety Data Sheet of L-Cysteine Hydrochloride Anhydrous is based upon a limited review of Foodchem International Corporation files and standard Toxicological handbooks. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Foodchem International Corporation be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Foodchem International Corporation has been advised of the possibility of such damages.

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