



Material Safety Data Sheet

Vitamin C MSDS

1. SUBSTANCE IDENTIFICATION

- 1.1. Product Name: [Vitamin C](#)
- 1.2. Description: Vitamin C is a family of vitamin including ascorbic acid and its salts manufactured through two-step fermentation process.
- 1.3. Chemical Formula: C₆H₈O₆
- 1.4. Molecular weight: 176.12
- 1.5. CAS #: 50-81-7
- 1.6. EINECS #: 200-066-2
- 1.7. Manufactured by: Foodchem International Corporation, Shanghai China.
- 1.8. Supplied by: Foodchem International Corporation, Shanghai China.
- 1.9. Usage: In food as antioxidants

2. Composition

- 2.1. Vitamin C: >99%
- 2.2. Hazardous impurities: Heavy metals 10 ppm max, Copper 5 ppm max, Iron 2 ppm max, Assay(on dried basis) 99.0 - 100.5%, Residue on ignition 0.1% max, Organic volatile impurities Conforms, Oxalic Acid 0.2% max

3. Physical/Chemical Characteristics

- 3.1. Physical State: Powder
- 3.2. Appearance: White or almost white crystal or crystalline powder
- 3.3. Odor: Odorless
- 3.4. pH: 4.3
- 3.5. Melting point/range: Decomposition temperature: >190 ° C (374 ° F)
- 3.6. Boiling point: 553 ° C (1027 ° F)
- 3.7. Bulk density: 1.694 g/cm³
- 3.8. Solubility: Soluble in hot water. Partially 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).
- 4.4. Hazardous polymerization: Will not occur
- 4.5. Incompatible with: Reactive with oxidizing agents.

5. Handling/Storage

- 5.1. Storage: Store in a cool and dry place and Keep away from strong light and heat
- 5.2. Handling precaution: Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust.

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
- 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 Vitamin C need to be handled under some special conditions.



7. Hazards Identification

- 7.1. Hazardous overview: Vitamin C is Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation
- 7.2. Contact with eyes: May cause eye irritation.
- 7.3. Contact with skin: May cause skin irritation.
- 7.4. Ingestion: May irritate the tissues of the mouth, esophagus, and other tissues of the digestive system
- 7.5. Inhalation: May cause irritation to the respiratory tract and gastrointestinal
- 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: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap
- 8.3. Ingestion: Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband.
- 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: 660 ° C (1220 ° F)
- 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. Vitamin C is fully biodegradable and the products of degradation are not toxic.

12. Other Information

- 12.1. This Safety Data Sheet of Vitamin C 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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