



Material Safety Data Sheet

Calcium Sulfate Dihydrate MSDS

1. SUBSTANCE IDENTIFICATION

- 1.1. Product Name: [Calcium Sulfate Dihydrate](#)
- 1.2. Description: Calcium Sulfate Dihydrate is a Calcium salt of Sulphate manufactured through chemical synthesis.
- 1.3. Chemical Formula: CaH₄O₆S
- 1.4. Molecular weight: 172.17
- 1.5. CAS #: 7778-18-9
- 1.6. EINECS #: 231-900-3
- 1.7. Manufactured by: Foodchem International Corporation, Shanghai China.
- 1.8. Supplied by: Foodchem International Corporation, Shanghai China.
- 1.9. Usage: In food as texture and flavour enhancer

2. Composition

- 2.1. Calcium Sulfate Dihydrate: >98%
- 2.2. Hazardous impurities: Arsenic (As) max. 2 mg/kg, Lead (Pb max. 2 mg/kg, Selenium max. 0.003%, Heavy metals max. 10 mg/kg

3. Physical/Chemical Characteristics

- 3.1. Physical State: powder.
- 3.2. Appearance: white powder
- 3.3. Odor: Odorless.
- 3.4. pH: 7.07
- 3.5. Melting point/range: Not available
- 3.6. Boiling point: Not available
- 3.7. Bulk density: 2.32 g/cm³ (20 C)
- 3.8. Solubility: Slightly soluble

4. Stability/Reactivity

- 4.1. Chemical Stability: Stable under normal temperatures and pressures
- 4.2. Shelf Life: 24 months period
- 4.3. Hazardous decomposition: Oxides of sulfur, irritating and toxic fumes and gases, calcium oxide
- 4.4. Hazardous polymerization: Will not occur
- 4.5. Incompatible with: Strong oxidizing agents and moisture.

5. Handling/Storage

- 5.1. Storage: Stored in a cool and dry place and Keep away from strong light and heat
- 5.2. Handling precaution: Wash thoroughly after handling. Wash hands before eating. Use only in a well ventilated area. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

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 Calcium Sulfate Dihydrate need to be handled under some special conditions.



7. Hazards Identification

- 7.1. Hazardous overview: Calcium Sulfate Dihydrate is Slightly hazardous in case of inhalation (lung irritant). Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, .
- 7.2. Contact with eyes: May cause eye irritation.
- 7.3. Contact with skin: May cause skin irritation.
- 7.4. Ingestion: Ingestion of large amounts may cause gastrointestinal irritation.
- 7.5. Inhalation: Causes respiratory tract irritation.
- 7.6. Other: Not Applicable

8. First Aid Measures

- 8.1. Contact with eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
- 8.2. Contact with skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
- 8.3. Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
- 8.4. Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

9. Fire and Explosion Data

- 9.1. General information: Non-flammable.
- 9.2. Flash point: Not available
- 9.3. Ignition control: Not available
- 9.4. Dust control: Keep the handling area with adequate ventilation
- 9.5. Extinguishing Media: Not available
- 9.6. Spills/Leaks: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

10. Transport Information

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

11. Ecological Information

- 11.1. Calcium Sulfate Dihydrate is fully degradation biodegradable. The products of degradation are less toxic than the product itself

12. Other Information

- 12.1. This Safety Data Sheet of Calcium Sulfate Dihydrate 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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