



Material Safety Data Sheet

Sulfamic Acid MSDS

1. SUBSTANCE IDENTIFICATION

- 1.1. Product Name: [Sulfamic Acid](#)
- 1.2. Description: Sulfamic Acid is a water-soluble compound manufactured through treating urea with a mixture of sulfur trioxide and sulfuric acid.
- 1.3. Chemical Formula: H₃NO₃S
- 1.4. Molecular weight: 97.09
- 1.5. CAS #: 5329-14-6
- 1.6. EINECS #: 226-218-8
- 1.7. Manufactured by: Foodchem International Corporation, Shanghai China.
- 1.8. Supplied by: Foodchem International Corporation, Shanghai China.
- 1.9. Usage: In food as cleaning agent of processing equipment

2. Composition

- 2.1. Sulfamic Acid: >99.5%
- 2.2. Hazardous impurities: Heavy metals Conform, Fe 3ppm, SO₄ 0.03%, NH₃ 150ppm, Chloride(CL) Conform, Insoluble water 0.01%

3. Physical/Chemical Characteristics

- 3.1. Physical State: Powder
- 3.2. Appearance: White Crystalline Powder
- 3.3. Odor: Not available
- 3.4. pH: 1
- 3.5. Melting point/range: Decomposes. (205 ° C or 401 ° F)
- 3.6. Boiling point: Not available.
- 3.7. Bulk density: 2.15g/cm³
- 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: Nitrogen oxides, oxides of sulfur, irritating and toxic fumes and gases, ammonia and/or derivatives.
- 4.4. Hazardous polymerization: Will not occur
- 4.5. Incompatible with: Strong oxidizing agents, strong bases.

5. Handling/Storage

- 5.1. Storage: Kept in dry, cool, and shaded place with original packaging, avoid moisture, store at room temperature.
- 5.2. Handling precaution: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Minimize dust generation and accumulation.

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 Sulfamic Acid need to be handled under some special conditions.



7. Hazards Identification

- 7.1. Hazardous overview: Sulfamic Acid is Extremely hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion, of inhalation.
- 7.2. Contact with eyes: Eye contact can result in corneal damage or blindness. Inflammation of the eye is characterized by redness, watering, and itching.
- 7.3. Contact with skin: Skin contact can produce inflammation and blistering.
- 7.4. Ingestion: May irritate the tissues of the mouth, esophagus, and other tissues of the digestive system
- 7.5. Inhalation: Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing.
- 7.6. Other: Not Applicable

8. First Aid Measures

- 8.1. Contact with eyes: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
- 8.2. Contact with skin: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention
- 8.3. Ingestion: Do NOT induce vomiting. 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 immediately.
- 8.4. Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate 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. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

10. Transport Information

- 10.1. CLASS 8: Corrosive solid.

11. Ecological Information

- 11.1. Sulfamic Acid is fully degradation biodegradable. The products of degradation are as toxic as the original product.

12. Other Information

- 12.1. This Safety Data Sheet of Sulfamic Acid 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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