



Material Safety Data Sheet

Inosine MSDS

1. SUBSTANCE IDENTIFICATION

- 1.1. Product Name: [Inosine](#)
- 1.2. Description: Inosine is a nucleoside manufactured through fermentation.
- 1.3. Chemical Formula: C₁₀H₁₂N₄O₅
- 1.4. Molecular weight: 268.23
- 1.5. CAS #: 58-63-9
- 1.6. EINECS #: 200-390-4
- 1.7. Manufactured by: Foodchem International Corporation, Shanghai China.
- 1.8. Supplied by: Foodchem International Corporation, Shanghai China.
- 1.9. Usage: In food as nutritional supplements

2. Composition

- 2.1. Inosine: >98%
- 2.2. Hazardous impurities: Heavy metals(Pb) 10ppm, Assay 98.0~102.0%, Residue on ignition 0.2%, Other Related compounds of nucleic acid, Chromatographically not detectable, Arsenic(As₂O₃) 1ppm

3. Physical/Chemical Characteristics

- 3.1. Physical State: Powder
- 3.2. Appearance: White crystalline Powder
- 3.3. Odor: Not available
- 3.4. pH: 4.8-5.8
- 3.5. Melting point/range: 222-226 ° C (dec.)(lit.)
- 3.6. Boiling point: 226 C (dec.)
- 3.7. Bulk density: Not available
- 3.8. Solubility: 2.1 g/100 mL (20 ° C)

4. Stability/Reactivity

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

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: Keep away from sources of ignition. Ground all equipment containing material.

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 Inosine need to be handled under some special conditions.



7. Hazards Identification

- 7.1. Hazardous overview: Inosine is Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Non-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: Low hazard for usual industrial handling
- 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: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops
- 8.3. Ingestion: Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.
- 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 Inosine powder 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. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.

10. Transport Information

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

11. Ecological Information

- 11.1. Inosine is fully degradation biodegradable.

12. Other Information

- 12.1. This Safety Data Sheet of Inosine 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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