



Material Safety Data Sheet

Disodium 5-Ribonucleotides MSDS

1. SUBSTANCE IDENTIFICATION

- 1.1. Product Name: Disodium 5'-Ribonucleotides
- 1.2. Description: Disodium 5'-Ribonucleotides is a food additive manufactured through chemical synthesis of sodium salt of guanylic acid and inosinic acid.
- 1.3. Chemical Formula: C₁₀H₁₁N₄Na₂O₈P
- 1.4. Molecular weight: 392.17
- 1.5. CAS #: 4691-65-0
- 1.6. EINECS #: 225-146-4
- 1.7. Manufactured by: Foodchem International Corporation, Shanghai China.
- 1.8. Supplied by: Foodchem International Corporation, Shanghai China.
- 1.9. Usage: In food as flavour enhancer

2. Composition

- 2.1. Disodium 5'-Ribonucleotides: >97%
- 2.2. Hazardous impurities: Lead 1 ppm, Total aerobic bacteria 1,000cfu/g, Yeast & mould 100cfu/g

3. Physical/Chemical Characteristics

- 3.1. Physical State: Powder
- 3.2. Appearance: White to light yellow crystalline powder
- 3.3. Odor: Odorless
- 3.4. pH: 7.0 - 8.5 (1 in 20 soln)
- 3.5. Melting point/range: 175 ° C
- 3.6. Boiling point: Not available
- 3.7. Bulk density: Not available
- 3.8. Solubility: Soluble in 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...)
- 4.4. Hazardous polymerization: Will not occur
- 4.5. Incompatible with: strong 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: be performed by personnel trained and familiar with handling of organic chemicals. Avoid skin and eye contact and breathing in dust. Avoid handling which leads to dust formation.

6. Exposure Control

- 6.1. Engineering Controls: Use exhaust ventilation 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 Disodium 5'-Ribonucleotides need to be handled under some special conditions.



7. Hazards Identification

- 7.1. Hazardous overview: Disodium 5'-Ribonucleotides 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: 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 Disodium 5'-Ribonucleotides 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: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section.

10. Transport Information

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

11. Ecological Information

- 11.1. Disodium 5'-Ribonucleotides is fully degradation biodegradable.

12. Other Information

- 12.1. This Safety Data Sheet of Disodium 5'-Ribonucleotides 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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