

# Material Safety Data Sheet (MSDS)

**Product Name:** Lactic Acid Food Grade

**MSDS Generate Date:** 20-05-2017

**Revision Date:** 30-12-2024

## Supplier:

Rawpharma Biz Pvt Ltd  
1101- City Centre 2,  
Science City Road,  
Sola Ahmedabad Gujarat,  
India - 380060.

**Contact No.:** +91 97272 88479

**Email:** [info@rawpharmabiz.com](mailto:info@rawpharmabiz.com)

**Website:** [www.rawpharmabiz.com](http://www.rawpharmabiz.com)

## 1. Identification of the Substance/Preparation and Company

- **Product Name:** Lactic Acid Food Grade
- **Synonyms:**  $\alpha$ -Hydroxypropionic Acid
- **CAS No.:** 50-21-5
- **Chemical Formula:**  $C_3H_6O_3$
- **Recommended Use:** Food additive, acidulant, preservative, pH regulator

## 2. Hazard Identification

- **Classification:**
  - Skin Irritation: Category 2
  - Eye Irritation: Category 2A
- **Signal Word:** *Warning*
- **Hazard Statements:**

- Causes skin irritation
    - Causes serious eye irritation
  - **Precautionary Statements:**
    - Wear protective gloves and eye protection
    - Avoid breathing mist/vapor
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### 3. Composition / Information on Ingredients

- **Lactic Acid (Food Grade):** 85–90%
  - **Other Ingredients:** Water (Diluent)
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### 4. First Aid Measures

- **Eye Contact:** Immediately rinse with plenty of water for 15 minutes. Seek medical attention if irritation persists.
  - **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
  - **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
  - **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical advice.
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### 5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO<sub>2</sub>
  - **Specific Hazards:** Non-flammable but may decompose at high temperature
  - **Protective Equipment:** Firefighters should wear full protective gear
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### 6. Accidental Release Measures

- Wear protective gloves and goggles
- Absorb with sand or inert material
- Wash contaminated area with water
- Prevent entry into drains

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## 7. Handling and Storage

- Handle with adequate ventilation
- Avoid contact with skin and eyes
- Store in tightly closed containers
- Store in cool, dry, well-ventilated area

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## 8. Exposure Controls / Personal Protection

- **Engineering Controls:** Good ventilation
- **Personal Protection:**
  - Gloves: Neoprene or rubber
  - Eye: Safety goggles
  - Respiratory: Not usually required
  - Clothing: Lab coat or protective apron

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## 9. Physical and Chemical Properties

- **Appearance:** Clear to pale yellow liquid
- **Odor:** Mild acidic
- **pH:** 1.2 – 2.0
- **Boiling Point:** ~122°C
- **Melting Point:** ~17°C
- **Solubility:** Completely soluble in water
- **Density:** 1.20 – 1.21 g/cm<sup>3</sup>

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## 10. Stability and Reactivity

- **Stable under normal conditions**
- Avoid strong oxidizing agents

- **Hazardous Decomposition Products:** CO, CO<sub>2</sub> under extreme heat
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## 11. Toxicological Information

- **Acute Toxicity:** Low when used properly
  - **Skin:** May cause irritation
  - **Eyes:** Strong irritant
  - **Ingestion:** May cause gastrointestinal discomfort
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## 12. Ecological Information

- Biodegradable
  - Low environmental toxicity
  - Avoid large spills into waterways
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## 13. Disposal Considerations

- Dispose according to local regulations
  - Do not release into environment
  - Neutralize before disposal if required
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## 14. Transport Information (DETAILED INFORMATION)

**UN Number:** Not regulated as hazardous for transport

**UN Proper Shipping Name:** Not applicable (Non-dangerous goods)

**Transport Hazard Class:** Not applicable

**Packing Group:** Not applicable

### Detailed Transport Guidelines:

- **Road (ADR/RID):**
  - Lactic Acid Food Grade is not classified as dangerous goods.
  - Transport in clean, sealed containers to avoid leakage.

- Ensure vehicle is well-ventilated and cargo is secured.
  - **Sea Transport (IMDG):**
    - Not considered marine pollutant.
    - Containers should be stored upright to prevent spillage.
    - Avoid storing near strong oxidizing substances.
  - **Air Transport (IATA):**
    - Not restricted for air shipment.
    - Packaging must comply with general cargo requirements.
    - Ensure no contact with incompatible materials during transit.
  - **General Transport Precautions:**
    - Avoid exposure to direct sunlight during long transport.
    - Maintain containers tightly closed.
    - Monitor for container corrosion or leakage as lactic acid is mildly corrosive to some metals.
    - Use plastic or acid-resistant containers for bulk shipment.
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## 15. Regulatory Information

- Complies with food additive regulations as per international standards
  - Not classified as hazardous for transport
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## 16. Other Information

- **Training Advice:** Personnel should be trained in handling chemicals safely
- **Disclaimer:** Information is based on current knowledge and is intended for safe handling of the product.
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