

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

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1. Identification of the Substance/Preparation and Company

- **Product Name:** Lactic Acid Food Grade
- **Synonyms:** α -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, CO₂
 - **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

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

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/cm³

10. Stability and Reactivity

- **Stable under normal conditions**
- Avoid strong oxidizing agents
- **Hazardous Decomposition Products:** CO, CO₂ under extreme heat

11. Toxicological Information

- **Acute Toxicity:** Low when used properly
- **Skin:** May cause irritation
- **Eyes:** Strong irritant
- **Ingestion:** May cause gastrointestinal discomfort

12. Ecological Information

- Biodegradable
- Low environmental toxicity
- Avoid large spills into waterways

13. Disposal Considerations

- Dispose according to local regulations
- Do not release into environment
- Neutralize before disposal if required

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.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.