

# Sodium Lactate 60% Solution

## 1. Identification

- **Product Name:** Sodium Lactate 60% Solution
  - **Synonyms:** Lactic acid sodium salt, Sodium 2-hydroxypropanoate
  - **CAS Number:** 72-17-3
  - **Recommended Use:** pH regulator, humectant, food additive, cosmetics
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## 2. Hazard Identification

- **Classification (GHS):**
    - Not classified as hazardous under GHS for typical concentrations ( $\leq 60\%$ )
  - **Label Elements:**
    - No pictogram or signal word required
  - **Hazards:**
    - May cause mild skin or eye irritation
    - Not flammable or reactive under normal use
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## 3. Composition / Information on Ingredients

Ingredient	CAS No.	% by Weight
Sodium Lactate	72-17-3	~60%
Water	7732-18-5	~40%

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## 4. First Aid Measures

- **Inhalation:** Remove to fresh air. Seek medical advice if symptoms persist.
  - **Skin Contact:** Wash with water and soap. Get medical attention if irritation occurs.
  - **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present.
  - **Ingestion:** Rinse mouth. Drink water. Seek medical attention if unwell.
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## 5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, foam, CO<sub>2</sub>
- **Hazards:** Not flammable

- **Protective Equipment:** Standard firefighting gear
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## 6. Accidental Release Measures

- **Personal Protection:** Wear protective gloves and goggles if needed
  - **Clean-Up:** Absorb with inert material (e.g., sand), place in container for disposal
  - **Environmental Precautions:** Prevent entry into waterways
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## 7. Handling and Storage

- **Handling:** Avoid contact with eyes and prolonged skin contact
  - **Storage:** Store in tightly closed containers at room temperature. Avoid extreme heat or cold
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## 8. Exposure Controls / Personal Protection

- **Exposure Limits:** None established for sodium lactate
  - **PPE:**
    - **Eyes:** Safety goggles
    - **Skin:** Protective gloves (nitrile recommended)
    - **Ventilation:** General ventilation is adequate
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## 9. Physical and Chemical Properties

- **Appearance:** Clear to pale yellow liquid
  - **Odor:** Mild characteristic odor
  - **pH:** ~6–8
  - **Boiling Point:** >100°C
  - **Freezing Point:** ~ -10°C
  - **Solubility:** Completely miscible in water
  - **Specific Gravity:** ~1.3 (at 20°C)
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## 10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Incompatible Materials:** Strong acids or oxidizers

- **Hazardous Reactions:** None known under normal use
  - **Decomposition Products:** Carbon dioxide, carbon monoxide
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## 11. Toxicological Information

- **Acute Toxicity:** Not acutely toxic
  - **Skin:** May cause mild irritation with prolonged contact
  - **Eyes:** May cause mild irritation
  - **Ingestion:** Low toxicity
  - **Carcinogenicity:** Not listed by IARC, NTP, or OSHA
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## 12. Ecological Information

- **Ecotoxicity:** Not expected to be harmful to aquatic life
  - **Biodegradability:** Readily biodegradable
  - **Bioaccumulation:** Not expected
  - **Mobility in Soil:** High due to water solubility
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## 13. Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local, regional, and national regulations
  - **Contaminated Packaging:** Rinse thoroughly before recycling or disposing
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