



Lactic Acid – Material Safety Data Sheet (MSDS)

Product Name: Lactic Acid 88%

Supplier: Basekim

Document Type: Material Safety Data Sheet (MSDS)

Note: This document is a general reference for an 88% aqueous solution. Verify all safety classifications, transport information, and product-specific details against the manufacturer's official SDS before regulatory or commercial use.

Section 1: Identification

Item	Description
Product Name	Lactic Acid 88%
Chemical Name	2-Hydroxypropanoic Acid
CAS Number	50-21-5
EC Number	200-018-0
Molecular Formula	$C_3H_6O_3$
Molecular Weight	90.08 g/mol
Supplier	Basekim
Recommended Uses	Food processing, cosmetics, pharmaceuticals, chemical manufacturing, and industrial applications

Supplier address and emergency telephone number must be added using verified company information.

Section 2: Hazard Identification

GHS Classification (reference classification for certain 88% solutions):

- Skin Corrosion: Category 1C
- Serious Eye Damage: Category 1

Signal Word: Danger



Hazard Pictogram: GHS05 – Corrosion

Hazard Statements:

- H314: Causes severe skin burns and eye damage.
- EUH071: Corrosive to the respiratory tract, where applicable.

Precautionary Measures:

- Avoid breathing mist or vapor.
- Wear chemical-resistant gloves and protective clothing.
- Use safety goggles and face protection.
- Wash thoroughly after handling.
- Seek immediate medical attention following significant exposure.

Final classification and labeling must follow the actual manufacturer's SDS.

Section 3: Composition and Information on Ingredients

Component	CAS Number	Concentration
Lactic Acid	50-21-5	88%
Water	7732-18-5	12%

Actual composition must be confirmed against the supplied product specification.

Section 4: First Aid Measures

Inhalation: Move the affected person to fresh air. Obtain immediate medical attention if exposure occurs.

Skin Contact: Immediately remove contaminated clothing. Rinse the affected area thoroughly with water. Seek medical attention.

Eye Contact: Immediately flush eyes with clean water for at least 15 minutes. Remove contact lenses if possible. Continue rinsing and seek urgent medical treatment.

Ingestion: Rinse the mouth. Do not induce vomiting. Contact a poison center or physician immediately. Never give anything by mouth to an unconscious person.



Section 5: Firefighting Measures

Suitable Extinguishing Media:

- Water spray
- Carbon dioxide
- Dry chemical powder
- Foam

Fire Hazards: Heating and combustion may generate carbon monoxide and carbon dioxide.

Protective Equipment: Firefighters should wear suitable protective clothing and self-contained breathing apparatus.

Section 6: Accidental Release Measures

- Restrict access to the affected area.
- Wear appropriate personal protective equipment.
- Prevent the product from entering drains and waterways.
- Contain spills using inert absorbent material such as sand or vermiculite.
- Collect contaminated material in suitable containers.
- Dispose of waste according to applicable regulations.

Section 7: Handling and Storage

Handling:

- Avoid contact with skin and eyes.
- Use adequate ventilation.
- Avoid generating or inhaling mist.
- Keep containers closed when not in use.

Storage:

- Store in tightly sealed, compatible containers.
- Keep away from direct sunlight and excessive heat.
- Separate from alkalis and strong oxidizing agents.
- Follow the manufacturer's recommended storage temperature.



Section 8: Exposure Controls and Personal Protection

Protection Type	Recommendation
Eye Protection	Chemical safety goggles and face shield
Hand Protection	Chemical-resistant gloves
Skin Protection	Protective clothing and suitable footwear
Respiratory Protection	Appropriate respiratory protection when ventilation is inadequate
Ventilation	Adequate general or local exhaust ventilation

Ensure that eyewash stations and emergency showers remain accessible.

Section 9: Physical and Chemical Properties

Property	Description
Appearance	Colorless to pale yellow liquid
Physical State	Viscous liquid
Odor	Characteristic
pH	Acidic; depends on dilution
Molecular Weight	90.08 g/mol
Water Solubility	Completely miscible
Concentration	88%
Density	Product-specific; confirm with TDS
Flammability	Not classified as flammable

Values may vary according to product formulation and testing conditions.

Section 10: Stability and Reactivity

Chemical Stability: Stable under recommended storage and handling conditions.

Conditions to Avoid: Excessive heat and incompatible materials.

Incompatible Materials: Strong oxidizing agents and alkalis.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide may form during combustion.



Section 11: Toxicological Information

Primary Routes of Exposure:

- Skin contact
- Eye contact
- Inhalation of mist
- Ingestion

Potential Health Effects:

- Causes severe skin burns under the reference classification.
- Causes serious eye damage.
- May cause respiratory tract damage following inhalation.
- May cause burns to the mouth, throat, and stomach if swallowed.

Section 12: Ecological Information

Biodegradability: Lactic acid is readily biodegradable.

Environmental Precautions: Prevent uncontrolled releases into waterways, drains, and soil.

Bioaccumulation: Low bioaccumulation potential.

Large releases may affect aquatic environments through changes in pH.

Section 13: Disposal Considerations

- Dispose of chemical waste according to local regulations.
- Use authorized waste disposal facilities.
- Do not discharge concentrated solutions directly into drains.
- Handle contaminated packaging as potentially hazardous waste.

Section 14: Transport Information

The following is a reference transport classification reported for certain 88% lactic acid solutions. Confirm the correct classification before preparing shipping documents.

Item	Classification
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UN Number	UN3265
Proper Shipping Name	Corrosive Liquid, Acidic, Organic, N.O.S. (Lactic Acid)
Transport Hazard Class	8
Packing Group	III
Marine Pollutant	No, subject to product verification

Transport classification may vary according to the actual formulation and applicable transport regulations.

Section 15: Regulatory Information

Applicable regulations may include:

- Globally Harmonized System (GHS)
- EU REACH Regulation
- EU Classification, Labelling and Packaging (CLP) Regulation
- Local chemical handling and transportation regulations

Regulatory requirements depend on the destination country, product grade, concentration, and intended application.

Section 16: Other Information

Product: Lactic Acid 88%

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Disclaimer: This document provides general safety information for reference purposes. The actual manufacturer's Safety Data Sheet, verified product composition, and applicable regulatory requirements must determine the official hazard classification, handling instructions, emergency information, and transportation documentation.