

MSDS SHEET

1. Identification of Substance/Preparation & Company

PRODUCT NAME: Lactic Acid 88%

Botanical Name/INCI DL-Lactic acid, 2-Hydroxypropionic acid

PRODUCT USE: Cosmetic/Industrial

Origin: USA

SUPPLIER: Botanic Planet Canada Inc. 2 Bram Ct, Unit # 3-4 Brampton Ontario L6W 3R6 Canada

CAS Number: 50-21-5

Phone / Fax: 905-455-4444 / 905-455-8841

Product Form: Powder

Emergency Tel No: (613)-996-6666 CANUTEC 24 HOUR EMERGENCY

2. Hazards Identification

GHS Classification

Classification of the chemical:

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

ACUTE TOXICITY – INHALATION – CATEGORY 4: Harmful if inhaled.
SKIN CORROSION/IRRITATION – CATEGORY 2: Causes skin irritation.
EYE DAMAGE/IRRITATION – CATEGORY 1: Causes serious eye damage.

Label elements:



Signal word:

DANGER

Hazard statements:

H332 Harmful if inhaled.
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements:

Prevention
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in well-ventilated area.
P280 Wear protective gloves/eye protection/face protection.
Response
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

3. Composition / Information on Ingredients

| Ingredient name | Synonyms | CAS Number | Concentration (% weight) |
|-----------------|---|------------|--------------------------|
| Lactic acid | DL-Lactic acid 2-Hydroxypropionic acid | 50-21-5 | ≥ 88 % |
| Water | | 7732-18-5 | ~ 12 % |

4. First-Aid Measures

INHALATION: Remove from exposure site to fresh air. Keep at rest. Obtain medical attention.

EYE CONTACT: Rinse immediately with plenty of water for at least 15 minutes. Contact a doctor if symptoms persist.

SKIN CONTACT: Remove contaminated clothes. Wash thoroughly with soap & water, flush with plenty of water. If irritation persists, seek medical advice.

INGESTION: Rinse out mouth with water. Seek medical advice immediately.

OTHER: When assessing action take Risk & Safety Phrases into account (Section 15).

5. Fire Fighting Measures

EXTINGUISHING MEDIA: Use CO², Dry Powder or Foam type Extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.

SPECIAL MEASURES: Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.

EXTINGUISHING PROCEDURES: Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

6. Accidental Release Measures

PERSONAL PRECAUTIONS: Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment (Safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages.

ENVIRONMENT PRECAUTIONS: Keep away from drains, soils, surface & ground waters. CLEAN UP METHODS Remove all potential ignition sources. Contain spilled material. Cover with an inert or FOR

SPILLAGES: non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Observe municipal, federal and local disposal regulations.

7. Handling & Storage

PRECAUTIONS IN HANDLING: Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene. Do not eat, drink or smoke whilst handling.

STORAGE CONDITIONS: Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.

FIRE PROTECTION: Keep away from ignition sources & naked flames. Take precautions to avoid static discharges in working area.

8. Exposure Controls/Personal Protection

RESPIRATORY PROTECTION: Avoid breathing product vapour. Apply local ventilation where possible.

VENTILATION: Ensure good ventilation of working area.

HAND PROTECTION: Avoid all skin contact. Use chemically resistant gloves if required.

EYE PROTECTION: Use safety glasses.

WORK / HYGIENE PRACTICES: Wash hands with soap & water after handling.

9. Physical & Chemical Properties

Appearance: Colorless or light-yellow viscous liquid

Odour: Faint acrid odor
Odour threshold: Not available.
pH: 2 (1% aqueous solution)
Melting point/Freezing point: 16.8 °C
Initial boiling point/boiling range: 122 °C
Flash point: 113 °C
Evaporation rate: Not available.
Flammability (solid; gas): Not available.
Lower flammable/explosive limit: Not available.
Upper flammable/explosive limit: Not available.
Vapour pressure: 0 kPa at 20 °C
Vapour density: Not available.
Relative density: 1.21-1.22 g/cm³
Solubility: Soluble in water. Soluble in ethanol.
Partition coefficient (n-octanol/water): -0.62
Auto-ignition temperature: Not available.
Decomposition temperature: >200 °C
Viscosity: Not available.

10. Stability & Reactivity

REACTIVITY: It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.

DECOMPOSITION: Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide and other non-identified organic compounds may be formed.

11. Toxicological Information

May be irritation to skin.

12. Ecological Information

BIODEGRADABILITY: Data not available

PRECAUTIONS: Prevent surface contamination of soil, ground & surface water.

13. Disposal Considerations

Avoid disposing to drainage systems and into the environment. Seek expert advice.

14. Transport Regulations

ROAD (ADR/RID): n/a

AIR (IATA/ICAO): n/a

SEA (IMDG): n/a

CHIP: See section 15

15. Regulatory Information According to Directive 88/379/EEC

HAZARDS: n/a

SYMBOLS: n/a

RISK PHRASES: n/a

SAFETY PHRASES: n/a

16. Other Information



Shelf life of this product depends very much on storage conditions, particularly moisture, temperature, exposure to light and air.

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CERTIFICATE OF ANALYSIS

Product Name: Lactic Acid 88%

INCI Name: DL-Lactic acid, 2-Hydroxypropionic acid

Lot No: BPCLAL122022

Best Before: December 2026

Origin: USA

| Properties | Specifications | Results |
|------------|----------------|---------|
|------------|----------------|---------|

| | | |
|--|--|--|
| | Appearance: transparent liquid | |
| | Density (20°C): 1.19 – 1.21 g/mL | |
| | Solubility: soluble in water and ethanol | |
| | Total acidity (as lactic acid) assay ≥ 88 % | |
| | Heavy metals (as Pb) ≤ 5 ppm | |
| | Iron ≤ 5 ppm | |
| | Calcium ≤ 10 ppm | |
| | Chloride ≤ 5 ppm | |
| | Sulfate ≤ 10 ppm | |
| | Sulfated ash ≤ 0.01 %w/w | |
| | Cyanide ≤ 0.5 ppm | |
| | Lead ≤ 0.5 ppm | |
| | Arsenic ≤ 1 ppm | |
| | Mercury ≤ 0.5 ppm | |

For longer shelf life keep it away from direct light, heat and moisture

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