

MSDS SHEET

1. Identification of Substance/Preparation & Company

Product Identifier: Lactic Acid Powder 85%

INCI: Lactic Acid

CAS No.: 50-21-5

Chemical Name: 2-Hydroxypropanoic Acid

Synonyms: Lactic Acid; 2-Hydroxypropionic Acid

Recommended Uses: Cosmetic and personal-care raw material; pH adjuster; acidulant; exfoliating/AHA ingredient; formulation ingredient.

Restrictions on Use: For professional/formulation use. Use according to applicable regulations and formulation requirements.

SUPPLIER: Botanic Planet Canada Inc.

ADDRESS: 2 Bram Ct, Unit # 3-4 Brampton Ontario L6W 3R6 Canada

CAS Number: 90082-21-6

PHONE/FAX: 905-455-4444 / 905-455-8841

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

SECTION 2 – HAZARD IDENTIFICATION

GHS Classification:

- Skin Irritation – Category 2
- Serious Eye Damage – Category 1

Signal Word: DANGER

Hazard Statements:

H315: Causes skin irritation.

H318: Causes serious eye damage.

Precautionary Statements:

P264: Wash thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352: IF ON SKIN: Wash with plenty of water.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTRE/doctor.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Concentration
Lactic Acid	50-21-5	Approx. 85%
Carrier/Moisture/Other Non-Hazardous Components	—	Balance

INCI: Lactic Acid

SECTION 4 – FIRST-AID MEASURES

Eye Contact: Immediately rinse cautiously with clean water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.

Skin Contact: Remove contaminated clothing. Wash affected skin thoroughly with soap and plenty of water. Obtain medical attention if irritation persists.

Inhalation: Move person to fresh air. Keep at rest in a position comfortable for breathing. Obtain medical attention if coughing, irritation or breathing difficulty develops.

Ingestion: Rinse mouth thoroughly with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice if significant quantities have been swallowed or symptoms occur.

Most Important Symptoms: Severe eye irritation/damage, redness, pain and skin irritation.

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide (CO₂), or appropriate foam.

Specific Hazards: Product is not expected to be highly flammable under normal conditions. Thermal decomposition may produce irritating fumes and carbon oxides.

Hazardous Combustion Products: Carbon monoxide and carbon dioxide.

Protective Equipment for Firefighters: Wear appropriate protective equipment and self-contained breathing apparatus when required.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Avoid generating and breathing dust. Avoid contact with eyes and skin.

Wear appropriate gloves, protective clothing and eye/face protection.

Sweep or collect spilled material carefully into a suitable labelled container. Avoid dispersing dust into the air.

Wash contaminated area with water after material has been collected.

Prevent large quantities from entering drains, waterways or soil.

SECTION 7 – HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid generating or inhaling dust. Use adequate ventilation. Wash thoroughly after handling.

Storage: Store in a tightly sealed container in a cool, dry and well-ventilated area. Protect from moisture, excessive heat and direct sunlight.

Keep away from incompatible materials, particularly strong oxidizing agents and strong bases.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: No specific occupational exposure limit established for lactic acid under typical handling conditions. General dust-control practices should be followed for powdered material.

Engineering Controls: Provide adequate general or local exhaust ventilation where dust may be generated.

Eye/Face Protection: Chemical safety goggles; face protection where splash or significant exposure is possible.

Skin Protection: Suitable chemical-resistant gloves and protective clothing.

Respiratory Protection: If dust concentrations cannot be adequately controlled through ventilation, use appropriate respiratory protection in accordance with applicable workplace regulations.

General Hygiene: Do not eat, drink or smoke while handling. Wash hands thoroughly after use.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Information
Physical State	Powder/Solid
Appearance	White Powder
Odour	Characteristic / Mild
Molecular Formula	$C_3H_6O_3$
Molecular Weight	90.08 g/mol
Assay	Approx. 85%
Solubility in Water	Soluble in Water
pH	Acidic in aqueous solution
Flammability	Not expected to be readily flammable
Vapour Pressure	Not applicable to solid under normal conditions

Relative Density	Not established for supplied powder
Partition Coefficient	No data available
Decomposition Temperature	No specific data available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: No dangerous reaction expected under normal conditions of storage and use.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous reactions are not expected during normal handling.

Conditions to Avoid: Excessive heat, moisture and incompatible materials.

Incompatible Materials: Strong bases and strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide and irritating fumes may be generated during thermal decomposition.

SECTION 11 – TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eye contact, skin contact, inhalation of dust and ingestion.

Eye Contact: May cause serious eye damage.

Skin Contact: Causes irritation. Prolonged or repeated exposure may increase irritation.

Inhalation: Dust may irritate the nose, throat and respiratory tract.

Ingestion: May cause irritation of the mouth, throat and gastrointestinal tract.

Sensitization: Not expected to be a skin sensitizer based on available information.

Carcinogenicity: Lactic acid is not generally classified as a carcinogen by major occupational-health classification systems.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Large releases may alter the pH of the receiving environment and adversely affect aquatic organisms.

Persistence and Degradability: Lactic acid is expected to be biodegradable.

Bioaccumulative Potential: Significant bioaccumulation is not expected.

Mobility in Soil: Expected to have mobility in aqueous environments.

Avoid uncontrolled release of large quantities into the environment.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of product, contaminated material and packaging in accordance with applicable municipal, provincial/state and federal regulations.

Do not dispose of large quantities into drains or natural waterways.

Empty containers should be handled appropriately because residues may remain.

SECTION 14 – TRANSPORT INFORMATION

UN Number: Not generally regulated as dangerous goods in the supplied solid form under normal transportation conditions.

Proper Shipping Name: Not applicable where unregulated.

Transport Hazard Class: Not applicable where unregulated.

Packing Group: Not applicable.

Environmental Hazard: Not expected to be classified as a marine pollutant.

Transportation classification should be confirmed against the exact formulation, packaging quantity and applicable carrier/jurisdiction requirements before shipment.

SECTION 15 – REGULATORY INFORMATION

This Safety Data Sheet has been prepared using the standard 16-section GHS/WHMIS SDS format.

Users are responsible for ensuring compliance with all applicable federal, provincial/state, local and international regulations governing the intended use, workplace handling, labelling and transportation of the product.

INCI Name: Lactic Acid

CAS: 50-21-5

SECTION 16 – OTHER INFORMATION

Product: Lactic Acid Powder 85%

Lot No.: BPCLAP12026

Country of Origin: India

Best Before: January 2029

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