

MATERIAL SAFETY DATA SHEET – Lactobionic Acid

1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY INFORMATION

Product Name: Lactobionic Acid

Supplier: Chanjao Longevity Co., Ltd. 50 Ramindra 14, Bangkok 10230 Thailand

Emergency Phone No.: +662-002-7-002

Fax No.: +662-001-7-022

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	EINECS#
Lactobionic Acid	96-82-2	202-538-3

Hazard Symbols: Not listed

Risk Phrases: Not listed

3. HAZARD IDENTIFICATION

The toxicological properties of this material have not been fully investigated.

Potential Health Effects

Eye: Serious eye irritation.

Skin: Serious skin irritation. Will be harmful if absorbed through the skin. Will irritate the digestive tract. Will be harmful if swallowed.

Inhalation: Will cause respiratory tract irritation. Will be harmful if inhaled.

4. FIRST AID MEASURES

Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Skin Contact: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Inhalation: Remove from exposure and move to fresh air immediately.

Ingestion: Get medical aid. Wash mouth out with water.

Notes to Physician: Treat symptomatically and supportively.

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5. FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

6. ACCIDENTAL RELEASE MEASURES

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container.

7. HANDLING AND STORAGE

Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage:

Store in a tightly closed container. Store in a dry area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Control:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protection:

Eyes: Wear chemical goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear a chemical apron.

Respirators: A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid crystalline powder
Color:	White-off
Odor:	Not available.
pH:	Not available.
Vapor Pressure:	Not available.
Viscosity:	Not available.
Boiling Point:	Not available.
Melting Point:	113-118C.
Molecular Weight:	358.3g/mole
Solubility Notes:	10mg/ml in PBS, 20mg/ml in DMSO&DMF

10. STABILITY AND REACTIVITY

Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Heat, ignition sources, light, air, incompatible materials, dust generation.

Incompatibilities:

Oxidizing Agents.

Hazardous Decomposition Products:

Not Available.

Polymerization:

Will not occur.

11. TOXICOLOGICAL INFORMATION

Route of Entry:

Inhalation, Ingestion

LD50/LC50:

>5000 mg / kg (Acute Oral/Mouse) , >2000 mg/kg (Dermal / Mouse)

Chronic Effects on Humans:

Possible Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.

Other Topic Effects on Humans:

Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: May cause skin irritation. Low hazard for normal industrial handling. Eyes: May cause eye irritation. Inhalation: May cause respiratory tract irritation. Low hazard for normal industrial handling. Ingestion: Ingestion of small amounts during normal industrial handling is a low hazard. Ingestion of large amounts may cause gastrointestinal tract irritation, hypermotility, diarrhea, acidification of the urine which may cause stones in the urinary tract and may cause renal failure coordination, somnolence), eyes(lacrimation), blood (anemia). Chronic Potential Health Effects: Ingestion: Prolonged or repeated ingestion may affect the blood/bone marrow and metabolism.

12. ECOLOGICAL INFORMATION

LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h. 82% Biodegradable after 28days aerobic exposure.

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13. DISPOSAL CONSIDERATION

Waste from Residue/Unused Products:

Dispose of in a manner consistent with federal, state, and local regulations.

14. TRANSPORT REGULATIONS

IATA No information available.
IMO No information available.
RID/ADR No information available.

15. REGULATORY INFORMATION

Hazard Symbol(s): Not available.
Risk Phrase(s): Not available.
Safety Phrase(s): S 24/25 Avoid contact with skin and eyes

16. OTHER INFORMATION

The information provided in this material safety data sheet is correct to the best of our knowledge. No warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Chanjao Longevity assumed no responsibility for any personal injury or property damage caused by the materials. Users assume all risks associated with the use of the materials.
