1. IDENTIFICATION

Chemical name: polylactic acid.
Common names: polylactic acid, PLA
Chemical formula: \((\text{C6H8O5})\text{n}\)

2. Components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight</th>
<th>OSHA Exposure Limits</th>
<th>ACGIH Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polylactide resin 9051-89-2</td>
<td>&gt;90%</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>N,N Ethylene bistearamide</td>
<td>&lt;5%</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Typical Antioxidant</td>
<td>&lt;5%</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Typical Pigment</td>
<td>&lt;5%</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

3. Physical Properties

Solubility in water: React moderate with water to become soluble. Will absorb water
Appearance: Solid filament
Density: 1.24g/cc
Melt temperature: 175~220°C

4. Hazardous Reactivity

Instability: None.
Incompatibility: Stable.
Decomposition: Slow reaction in the presence of water.
Polymerization: Will not occur, already a polymer.
Combustion: Carbon monoxide and/or carbon dioxide may form during the combustion of this product.

5. Explosion Hazard and Fire Data

Unusual Explosion Hazard and Fire: The material will burn if exposed to sufficient heat and an ignition source. Avoid dispersion of dust in the air to reduce dust explosion hazard potential.
Extinguished Media: Water, Carbon dioxide, Dry chemical power, Foam.
Special Extinguishing Procedures: Firefighters must wear self-contained breathing apparatus and fully protective equipment.

6. Health Hazard Data
Health Hazards: May cause mild skin and eye irritation if reacted with water. Medical Conditions Aggravated by exposure: None expected based on available information.

7. Precautions for Safe Handling and Use

Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Wash thoroughly after handing. Hot and/or melted polymer can severely burn the skin. Handle with care.

8. Emergency and First Aid

Skin Contact: Solid or dust may cause irritation or corneal injury due to mechanical action
Eyes Contact: Essentially nonirritating to skin, Mechanical injury only
Inhalation: No harmful effects expected. Consult a physician.
Swallowing: No harmful effects expected. Consult a physician.

9. Special Protection Information

General Control Measures and procedures: None for normal use.
Personal Protective Equipment: Rubber gloves, safely lasses, Respirator.

10. Disposal Information

Spillage of Release: Collect for disposal. Use appropriate personal protective equipment during clean-up.
Waste disposal: Bury in a landfill in compliance with all federal, state and local regulations.
Material is non-hazardous and biodegradable.

11. Recommended Storage Conditions

Precautions should be taken in handing and storage: Avoid contacting with atmospheric moisture. Store materials at <60 with a desiccant in original containers to maintain product quality. Keep the container closed until it is ready for use. Purge container with high-purity dry nitrogen after opening, before resealing or repackaging.

12. TRANSPORT INFORMATION

Shipping Containers: Samples bottles; Moisture proof laminated pouches.
Proper Shipping name: Not regulated as a hazardous by DOT OR IMO.

**The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made.**

Consult the Company for Further Information.

**NOTICE REGARDING MEDICAL APPLICATION RESTRICTIONS:** The company does not recommend any of its products, including samples, for use: (A) in any application which is intended for any internal contact with human body fluids or body tissues (B) as a critical component in any medical device that supports or sustains human life; and (C) specifically pregnant women or in any applications designed specifically to promote or interfere with human reproduction.