Unilong Industry Co., Ltd

Add: No.2000 Shunhua Rd, High-Tech Zone , Jinan City, Shandong Province, China
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Chemical Safety Data Sheet

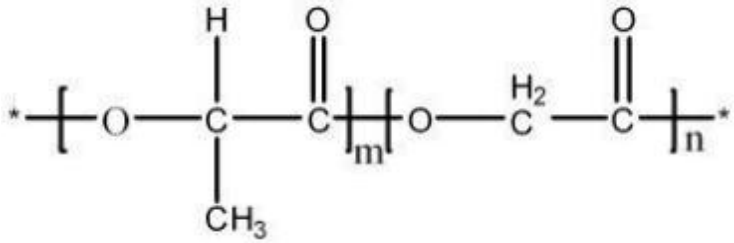
I. Identification

Chemical family ： Lactide-glycolide-containing copolymer

Common Name ： Poly(DL-lactic-co-glycolide)

Chemical Formula ： (C6H8O4)m(C4 H4O4)n

Chemical Structure：



II. Physical and Chemical Properties of the Polymer

Solubility in water ： Could be degraded in water, but do not dissolve in water

Appearance ： White to yellowish, light gold

Odour：Nearly odourless

Glass Transition Temperature ： 40~60C

Melting point(C): No information identified

* Melting Point & Glass Transition Temperature were measured by DSC. The molecular weight and composition of the polymer directly affect the melting point and Tg.

III. Quality of the PLLA

Identity ： Same as the standard IR spectrum of PLGA.

Purity ： min.99.5%

Residual solvent ： max.500ppm toluene

Water：max.0.4%

Tin ： max.60ppm

Heavy metals ： max. 10ppm

Sulphated ash ： max.0. 1%

III. Hazardous Reactivity

Incompatibility ： None

Instability ： Stable

Decomposition ： Quick reaction in the presence of water

Combustion ： Carbon monoxide and / or carbon dioxide may form during the combustion of this product.

IV. Explosion Hazard and Fire Data

Autoignition Temperature: Not available

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Unusual Fire and Explosion Hazards: Like most organic substances, the material will burn if exposed to sufficient heat and an ignition source. Also, avoid dispersion of dust in the air to reduce dust explosion hazard potential.
Extinguished Media ： Water, Carbon dioxide, Dry chemical powder, Foam. Water spray regular type, or all-purpose foams applied according to manufacturers' recommendations for large fires. Carbon dioxide for small fires.
Special Extinguishing Procedures ： Firefighters must wear self-contained breathing apparatus and fully protective equipment.

V. Health Hazard Data
PEL and TLV* Exposure Limits: None established by OSHA or ACGIH. May cause mild skin and eye irritation if reacted with water. TLV is a registered trademark.
Other Applicable Exposure Limits: Exposure limits have not been established by OSHA, ACGIH or DURECT.
Medical Conditions Aggravated by Exposure ： None expected based on available information.

VI. Precautions for Safe Handling and Use

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

VII. Emergency and First Aid
Skin Contact :Wash affected area with copious of water and soap. Eyes ： Flush eyes with water for at least 15 minutes. Consult a physician. Inhalation ： No harmful effects expected. Consult a physician. Swallowing ： No harmful effects expected. Consult a physician.

IX.Special Protection Information
General Control Measures and Procedures ： None for normal use.
Personal Protective Equipment ： Rubber gloves, Safety glasses, Respirator

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

XI. Recommended Storage Conditions
Precautions should be taken in handling and storage: Avoid contacting with atmospheric moisture. Store materials at －10C or below 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.

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XII. Shipping Information

Shipping Containers ： Samples bottles; moisture proof laminated pouches Proper Shipping name ： Not regulated as a hazardous material by DOT OR IMO. No portions of the polymer or raw materials are derived from any animal sources.