Shandong Lecron Polymer Co., Ltd.

Product: **LC-5040**

Revision Date: **2023-2-10**

Version: **1.2**

1. Chemicals and Company Identification

Product Name: Polyester Polyol **LC-5040**

Company: **Shandong Lecron Polymer Co.,Ltd.**

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2. Chemical Name

Name: **Diethylene glycol phthalic anhydride polymer**

CAS NO.: 3645-00-9

Composition: Modified polyester polyol based on PTA and diol synthesis

3. Hazard Label

Eyes

This substance has a mild irritating effect on the eyes.

Skin

Prolonged or repeated contact with this compound generally does not cause skin damage. However, if the skin is damaged, such as by cuts or abrasions, avoid contact with this compound. Contact with the compound when it is heated to high temperatures can also cause burns.

Ingestion

The compound contains a small amount of glycol, which is harmful if swallowed. Small ingestions, if handled normally, will not cause harm, but large ingestions can be harmful.

Inhalation

Inhaling the vapor of the compound can affect the nervous system and produce rapid anesthesia. Excessive inhalation of this vapor can increase heart rate, disrupt regular heartbeats, and impair heart function.

Systemic Effects

Excessive exposure to fluorocarbon compounds can damage the central nervous system and cause symptoms of anesthesia.

4. Emergency Measures

Eye Contact

Lift eyelids and rinse with flowing water or saline. Seek medical attention if adverse reactions occur.

Skin Contact

Normal use does not pose a threat to the skin. Remove contaminated clothing and rinse skin with soap and water for 15 minutes. Seek medical attention if adverse reactions occur.

Ingestion

The likelihood of ingestion is low. If ingested, seek medical attention immediately.

Inhalation

Move to a place with fresh air. Seek medical attention if adverse reactions occur.

5. Fire - Firefighting Measures

Burning Conditions

Incomplete combustion will release toxic gases at high temperatures.

Complete combustion will generate carbon oxides, nitrogen oxides, water, ammonia, hydrochloric acid, hydrofluoric acid, chlorine gas, fluorine gas, phosphorus oxides, and trace amounts of hydrogen cyanide.

Fire or explosion will promote combustion.

Appropriate Extinguishing Agents

Carbon dioxide, dry powder, foam, and water mist can be used for firefighting. Avoid using water jets as they may spread the fire.

Firefighting Instructions

Evacuate the public, isolate the fire area, stay upwind, and refuse entry to non-related rescue personnel. Leave low-lying areas as toxic gases may accumulate there. When no other effective extinguishing agents are available, large amounts of water can be used for firefighting (not recommended). Do not use direct water jets, as they may cause splashing of burning materials.

Implement firefighting from a safe location and distance. Consider using unmanned water spray devices or fire monitor nozzles. Before the fire is extinguished, spray water on the containers at the fire site to cool them down and on areas susceptible to ignition. Transfer other products threatened by the fire as much as possible in a safe manner.

Firefighter Protection

Firefighters' personal protective equipment should be fully equipped, such as positive-pressure self-contained breathing apparatus, protective clothing, protective shoes, protective gloves, etc., to prevent inhalation of potential toxic gases and irritating smoke. If it is safe to do so, remove burning containers and spray them with cold water to cool them down, minimizing the likelihood of container explosion. If these protective equipment are not available, ensure you are in a safe position and maintain a sufficient safe distance from the fire when extinguishing it.

6. Emergency Response for Leakage

Personal Protective Measures

Protect personnel from harm. Isolate the area and prohibit entry of individuals without necessary protective equipment.

Environmental Protection Measures

Prevent entry into land, sewer pipes, and waterways.

Overflow and Leakage Handling Procedures

Absorb spills with sand, soil, or any suitable absorbent material, transfer them to containers for proper disposal, and rinse the spill area with water. Avoid spillage entering sewers and public water pipes.

7. Handling and Storage

Handling

Adhere to standard chemical safety measures.

Storage

Store in tightly sealed and dry packaging drums, avoiding contact with strong acids and isocyanates. Keep away from direct sunlight and rain.

Storage Container Material

Galvanized iron drums, ton drums, etc.

Storage Temperature

Room temperature.

8. Contact Control/Personal Protection

Maximum Allowable Concentration

Not specified.

Engineering Controls

It is essential to activate ventilation systems.

Personal Protection

Eye Protection: Wear protective goggles. If vapors cause discomfort to the eyes, use full-face protection (goggles and mask) covering the entire face. Rinse eyes immediately with plenty of clean water.

Skin and Body Protection: Wear gloves made of impermeable material and long-sleeved outer clothing. Wash thoroughly with soap before eating, drinking, smoking, or leaving work. Contaminated clothing must be washed thoroughly and dried before reuse.

Respiratory Protection: In most cases, special respiratory protection devices are not necessary. However, if working in poorly ventilated areas with high temperatures or where aerosolized particles of the material are present, respiratory protection devices should be worn.

9. Physical and Chemical Properties

State: Liquid

Appearance: Yellow-green to brown-yellow.

Odor: Slight

Melting point: Below 0°C

Flash point: Not measurable

Ignition temperature: No data

pH: 5-7

Density (25°C): Approximately 1.10-1.20 g/cm3

Solubility: Insoluble in water, partially soluble in methanol, ethanol, toluene, and most organic solvents.

10. Stability and Reactivity

Stability

It is very stable under recommended storage conditions.

Storage Conditions

Avoid direct sunlight, high temperatures, flames, sparks, and other ignition sources, and ensure the availability of firefighting facilities.

Incompatible Materials and Substances to Avoid Contact With

Oxidizing agents, strong acids, isocyanates.

Hazardous Decomposition Products

When stored and handled properly, hazardous decomposition products are unlikely to be produced.

11. Toxicological Data

No data available.

12. Ecological Data

This substance is not easily biodegradable and should not be discharged into water, wastewater, or soil.

13. Waste Disposal

Waste Disposal Methods

Do not pour the substance into any sewer, onto any ground, or into any body of water. Disposal should be in accordance with local, provincial, or national regulations.

Precautions

Follow government regulations when using or handling empty containers.

14. Transportation Information

UN No.

Not specified

Packaging Markings

Not required

Packaging Methods

Packaging in galvanized iron drums or plastic drums, or as negotiated between the supplier and the buyer.

Transportation Precautions

Before transportation, check the packaging containers for integrity and sealing. During transportation, ensure that the containers do not leak, collapse, fall, or become damaged. Mixing and transportation with oxidizing agents, acids, food chemicals, etc., are strictly prohibited. Transport vehicles and vessels must be thoroughly cleaned and disinfected; otherwise, they may not be loaded with other items. During shipping, the loading position should be far away from bedrooms, kitchens, and isolated from cabins, power sources, and ignition sources.

15. Regulatory Information

No data available.

Declaration

The information provided in this Material Safety Data Sheet is formulated based on the latest knowledge, information, and concepts available to us, but some data may still be undergoing further refinement. The provided information serves only as a guide for safe handling, use, processing, storage, transportation, disposal, and release, and should not be construed as a warranty or quality specification. The information provided is intended solely for the specified specific substance and may not be applicable to substances combined with any other substances or substances subjected to any processing, unless otherwise specified in the document.