Section 1 - CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier: EPOLEAD PB4700 [EPL PB4700]
Product Code: ODP–OH–EPLPB4700–01
Reference Number: EPLPB4700_E03
Company Name: DAICEL CORPORATION
Address: 2–18–1, Konan, Minato-ku, Tokyo 108–8230, Japan
Phone Number: +81–3–6711–8211
Fax Number: +81–3–6711–8218
Emergency Phone: +81–3–6711–8211

Recommended Use and Restriction on Use: General industrial

Section 2 - HAZARDS IDENTIFICATION

GHS Classification:

Physicochemical Hazards: Flammable liquids Out of category
Pyrophoric liquids Out of category

Health Hazards: Acute toxicity – oral Out of category
Skin corrosion/irritation Out of category
Sensitization – skin Out of category
Other hazards than mentioned above are Not applicable or No data available.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture: Substance
Chemical name or generic name: Polybutadiene Epoxydized

<table>
<thead>
<tr>
<th>Chemical Name or Generic Name</th>
<th>Concentration or Its Ranges</th>
<th>Formula</th>
<th>CAS RN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polybutadiene Epoxydized</td>
<td>≥99%</td>
<td>-</td>
<td>71342–74–0</td>
</tr>
</tbody>
</table>

Impurities and/or Stabilizing Additives which Contribute to the Classification: No information available

Section 4 - FIRST AID MEASURES

Inhalation: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor. Get medical advice and attention if you feel unwell.

Skin Contact: Take off contaminated clothing and wash it before reuse. Wash with soap and water. Immediately call a doctor.
Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor. Get medical advice and attention.

Ingestion

Rinse mouth. Do NOT induce vomiting. Immediately call a doctor. Get medical advice and attention.

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Small fires: Dry chemical, dry sand, alcohol-resistant foam.
Large fire: Dry chemicals, alcohol-resistance foam extinguishing agents and water sprinkling.

Unsuitable Extinguishing Media

Straight streams.

Specific Hazards

Flammable and combustible material. May be ignited by heat, sparks or flames.

Specific Fire Fighting

Use extinguishing agent suitable for type of surrounding fire. Move containers from fire area if you can do it without risk.

Protection of Fire Fighter

In fire fighting, wear respiratory protection and chemical protective clothing.

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions,
Protective Equipment and Emergency Procedures

Keep unauthorized personnel away. Wear appropriate personal protective equipment (Refer to “Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION”) and avoid inhalation or contact with eyes and skin. Isolate the site as a leak area by providing a zone that has an appropriate width to all directions. Keep out of low areas. Stay upwind. Do not touch or walk through spilled material.

Environmental Precautions

Pay attention not to cause the influence on the environment by discharging into rivers. Stop leak if you can do it without risk.

Methods and Equipment for Containment and Cleaning up

All equipment used when handling the product must be grounded. Small spills; absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for later disposal. Small spills; Use clean non-sparking tools to collect absorbed material. Large spills; prevent flowing out with a dike and collect it at a safe place.

Prevention Measures for Secondary Accidents

Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area). Isolate flammables (such as wood, paper, and oil) from the leakage.
Section 7 – HANDLING AND STORAGE

Handling

Technical Measures

Prevent flowing into drain, sewage, basement, and closed area.

Precautions for Safe Handling

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".

Ventilate the exhaust to keep the concentration in the air below the exposure limit.

Obtain special instructions before use.

Use properly by reading "Precautions for Use" labeled on the container before use or disposal.

Wash hand thoroughly after handling.

Evacuate area due to explosion risk in case of fire.

Handle at a well-ventilated place.

Avoid release to the environment.

Do not get in eyes, on skin or on clothing.

Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".

Do not handle until all safety precautions have been read and understood.

Ventilate the exhaust to keep the concentration in the air below the exposure limit.

Obtain special instructions before use.

Use properly by reading "Precautions for Use" labeled on the container before use or disposal.

Wash hand thoroughly after handling.

Prohibit use of heat, sparks, and fire in the surrounding area.

Do not contact, breathe or swallow.

Do not expose to temperatures exceeding appropriate temperature.

Do not breathe dust and fume.

Do not handle containers with such manners as tumbling down, falling, exposing to shock, or dragging.

Prevented Handling of Incompatible Substances or Mixtures

Refer to "Section 10 – STABILITY AND REACTIVITY".

Specific Hygiene Measures

Prevent flowing into drain, sewage, basement, and closed area.

Wash hand thoroughly after handling.

Storage Precautionary Statements

Technical Measures

The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods.

The storage floor should have penetration-proof construction against dangerous goods and be inclined adequately. A proper sump should be provided to catch any spills.

The roof of a storage facility should be made of a non-combustible material and use metals or other lightweight non-combustible materials. No ceiling should be installed.

The storage facility should be designed with fire-proof construction and beams should use a non-combustible material.

Refer to "Section 10 – STABILITY AND REACTIVITY".

Store away from incompatible materials.

Store locked up.

Have containers keep away from direct sunlight and heat.
Material Used in Packaging/Containers

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

<table>
<thead>
<tr>
<th>Material Used in Packaging/Containers</th>
<th>Exposure Limits (ACGIH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polybutadiene Epoxydized</td>
<td>Not established</td>
</tr>
</tbody>
</table>

**Engineering Controls**

- Workplace storing or handling this product should be equipped with eye washing station and safety shower.
- Use process enclosures, local exhaust ventilation, or other engineering controls.
- Install ventilation system to keep exposure to airborne contaminants below the exposure limit if vapor, fume, mist generates in the process handling at elevated temperature.
- Take precautionary measures against static discharge.
- Use explosion-proof electrical, ventilating and lighting equipment.
- Install explosion-proof local ventilation equipment.
- Ground or bond container and receiving equipment.

**Personal Protective Equipment**

- Respiratory Protection: Wear respiratory protection.
- Hand Protection: Wear protective gloves.
- Eye Protection: Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).
- Skin and Body Protection: Wear protective clothing and face protection.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: Liquid (viscous)
- Color: Clear
- Odor: Slight odor
- Odor threshold: No data available
- pH: No data available
- Melting Point/Freezing Point: No data available
- Initial Boiling Point and Boiling Ranges: No data available
- Flash Point: 310°C (Cleveland Open Cup)
- Evaporation Rate: No data available
- Flammability (solid, gas): No data available
- Flammability or Explosive Limits: No data available
- Vapor Pressure: No data available
- Vapor Density: No data available
- Specific Gravity (Density): No data available
- Partition Coefficient : n-Octanol/Water: No data available
Auto-Ignition Temperature **It’s not self-ignite in contact with air at ambient temperature.**

Decomposition **No data available**

Temperature **No data available**

Viscosity **No data available**

Kinematic viscosity **No data available**

### Section 10 – STABILITY AND REACTIVITY

**Reactivity**

Chemical stability **Stable under ordinary conditions of use and storage.**

Possibility of Hazardous Reaction **React with strong oxidizers (ex. Nitrate), strong alcalis or strong acids may cause fire and explosions.**

Conditions to Avoid **Fire, heat, incompatibles.**

Incompatible Substances or Mixtures **Strong oxidizers, strong alcalis, strong acids.**

Hazardous Decomposition Products **Burning may produce toxic gases (carbon dioxide and carbon monoxide and so on).**

### Section 11 – TOXICOLOGICAL INFORMATION

**Acute Toxicity Oral**

Skin Corrosion/Irritation **Out of category; LD50>2000mg/kg (Rat)**

Respiratory or Skin Sensitization **Out of category (Skin Sensitization); From the skin sensitization test (LLNA-DA test (TG442A simplified test method) results; negative. Ames test; negative.**

**Germ Cell Mutagenicity**

### Section 12 – ECOLOGICAL INFORMATION

**Hazard to the aquatic environment (acute hazard)** **No data available**

**Hazard to the aquatic environment (long-term hazard)** **No data available**

**Hazard to the ozone layer** **No data available**

### Section 13 – DISPOSAL CONSIDERATIONS

**Residual Waste**

Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material. Disposal should be in accordance with applicable regulations and standards by the respective local governments. When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company.

**Contaminated Container and Packaging**

In case of disposal of empty containers, remove the content thoroughly. Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments.

### Section 14 – TRANSPORT INFORMATION
International Regulations

Regulatory Information by Sea
Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code
Regulatory Information by Air

Emergency Response Guide Number

Section 15 – REGULATORY INFORMATION
Details of international registration status
ENCS(Japan); 6-759
TSCA(USA); Listed
DSL(Canada); Listed
ECL(Korea); KE-28850
IECSC(China); Listed
ECN(Taiwan); Listed
PICCS(Philippines); Listed
AICS(Australia); Listed

Section 16 – OTHER INFORMATION
Information Contact
Other Property
See Sec.1 (Company identification)
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