Bisphenoxyethanolfluorene (BPEF) MSDS

Product Name and Identification

Product Name: Bisphenoxyethanolfluorene (BPEF)
Chemical Formula: C25H20O3
CAS Number: 98326-99-7
Intended Use: Industrial applications, resin production, and specialty polymer synthesis.

Composition/Ingredients

Chemical Composition:

- **Substance Name**: Bisphenoxyethanolfluorene
- **Purity**: ≥ 99%
- **Hazardous Components**: None identified with current regulatory limits.

Hazards Identification

Emergency Overview:

- **Physical Hazards**: May form combustible dust concentrations in air.
- **Health Hazards**:
    o   May cause mild irritation to the eyes and skin.
    o   Prolonged exposure to vapors or dust may cause respiratory discomfort.
- **Environmental Hazards**: Avoid release to water sources as it may cause harm to aquatic life.

Precautionary Statements:

- Avoid inhalation of dust or fumes.
- Use protective equipment as required.
- Keep away from ignition sources.

First Aid Measures

Eye Contact:

- Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses if present and safe to do so. Seek medical advice if irritation persists.

Skin Contact:

- Wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

Inhalation:

- Move person to fresh air. If breathing is difficult, seek medical attention immediately.

Ingestion:

- Rinse mouth with water. Do not induce vomiting unless advised by medical personnel. Call a poison control center or doctor for further assistance.

Handling and Storage

Handling:

- Use in well-ventilated areas. Avoid creating or inhaling dust.
- Wash hands thoroughly after handling.
- Minimize contact with skin and eyes.

Storage:

- Store in a cool, dry, and well-ventilated area.
- Keep away from direct sunlight, heat, and sources of ignition.
- Ensure containers are tightly sealed when not in use.

Exposure Controls/Personal Protection

Exposure Limits:

- No specific occupational exposure limit has been established.

Engineering Controls:

- Provide adequate ventilation to maintain dust levels below occupational exposure limits.

Personal Protective Equipment (PPE):

- **Eye Protection**: Wear safety goggles or face shield.
- **Skin Protection**: Use chemical-resistant gloves and suitable protective clothing.
- **Respiratory Protection**: Use an approved particulate respirator if dust or fumes are generated.

Physical and Chemical Properties

- **Appearance**: Off-white to light yellow powder
- **Odor**: Odorless
- **Melting Point**: 200–210°C
- **Boiling Point**: Not applicable under normal conditions
- **Flash Point**: Not determined
- **Solubility**: Insoluble in water; soluble in organic solvents
- **Vapor Pressure**: Negligible at room temperature

Stability and Reactivity

Chemical Stability:

- Stable under normal conditions of use and storage.

Reactivity:

- Non-reactive under normal conditions.

Conditions to Avoid:

- Avoid excessive heat, moisture, and sources of ignition.

Hazardous Decomposition Products:

- Thermal decomposition may produce carbon monoxide, carbon dioxide, and other toxic fumes.

Toxicological Information

- **Acute Toxicity**:
    - Low acute oral and dermal toxicity; LD50 values not explicitly determined.
- **Skin/Eye Irritation**:
    - May cause mild irritation upon prolonged contact.
- **Chronic Effects**:
    - Prolonged exposure may cause respiratory irritation.

Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
- Do not release into waterways or the environment.
- Contaminated packaging should be handled similarly to the material.

Note: All information in this document is based on the best current understanding and may require periodic updates as new data becomes available. Always consult relevant regulations and standards for compliance.