1. Identification


Uses: Component for Polyurethane Mold Rubber. For Industrial/Professional use only.

Manufacturer: Polytek Development Corp.

2. Hazards Identification

GHS Classification: Specific Target Organ Toxicity - Repeated Exposure Category 2

Label Elements: Warning!

Contains Diisothiophosphamide

Hazard Phrases: H375 May cause damage to pancreas through prolonged or repeated exposure.

Precautionary Phrases: P200 Do not breathe vapors P214 Get medical advice if you feel unwell.

3. Composition/Information on Ingredients

Chemical Name: CAS #: %

Dithiobisornithamide 64479-58-1 1-25%

4. First-Aid Measures

Eye Contact: Rinse thoroughly with water, holding the eyelids open to be sure the material is washed out. Get medical attention if irritation persists.

Skin Contact: Remove contaminated clothing. Wash contaminated skin thoroughly with soap and water. Get medical attention if irritation persists.

Inhalation: Remove person to fresh air. Get medical attention if symptoms persist.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

5. Fire-Fighting Measures

Extinguishing Media: Use water fog, foam, carbon dioxide or dry chemical. Do not use solid water stream. Solid stream of water into hot product may cause violent steam generation or explosion.

Special Hazards: Not classified as flammable or combustible. Product will burn under fire conditions.

Special Protective Equipment & Precautions for Fire-Fighters: Wear positive pressure, self-contained breathing apparatus and full-body protective clothing. Cool fire-exposed containers with water.

6. Accidental Release Measures

Personal Protective, Protective Equipment and Emergency Procedures: Remove all ignition sources. Clear non-emergency personnel from the area. Wear appropriate protective clothing to prevent eye and skin contact and avoid breathing vapors. Carbon - spill area may be slippery.

Methods and Materials for Containment and Cleanup: Cover with an inert absorbent material and collect into an appropriate container for disposal. Avoid release to the environment. Report spills and releases as required to appropriate authorities.

7. Handling and Storage

Safe Handling: Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep container closed when not in use.

Safe Storage: Store indoors at temperatures below 120°F (49°C). Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: None Established

Ventilation: Use with adequate general or local exhaust ventilation to minimize exposure levels.

Respiratory Protection: If allowed, an approved respirator with organic vapor cartridges may be used. Respirator selection and use should be based on contaminant type, form and concentration. For higher exposures or in an emergency, use supplied-air respirator.

Skin Protection: Wear impervious gloves, such as butyl rubber or nitrile rubber.

Eye Protection: Wear chemical safety goggles.

Other Protective Measures: Wear impervious clothing to prevent skin contact and contamination of personal clothing. An eye wash facility and washing facility should be available in the work area. Follow applicable regulations and good Industrial Hygiene practice.

9. Physical and Chemical Properties

Appearance: Liquid of varied colors

Odor: Slightly pungent

Odor Threshold: No data available

pH: Not applicable

Melting Point: No data available

Boiling Point: No data available

Flash Point: > 350°F (177°C)

Evaporation Rate: No data available

Upper/Lower Flammability Limits: No data available

Vapor Pressure: <0.01 mm Hg @ 25°C

Vapor Density: No data available

10. Stability and Reactivity

Stability: Stable under recommended conditions.

Hazardous Decomposition Products: Thermal decomposition will generate oxides of carbon and nitrogen, organic acids, and other toxic organic compounds.

11. Toxicological Information

Eye Contact: May cause moderate irritation.

Skin Contact: May cause mild irritation.

Inhalation: Vapors may cause mild respiratory irritation.

Ingestion: Single oral dose toxicity is low. No harmful effects anticipated from ingesting small amounts incidental to normal handling. Large amounts may cause gastrointestinal effects.

Acute Toxicity Values: For Diisothiophosphamide: Oral LD50 725 mg/kg; Inhalation rat LC50 2.45 mg/L 1 hr; Dermal rabbit LD50 200 mg/kg.

Skin Corrosion/Irritation: Relevant compounds are not skin irritants.

Eye Damage/Irritation: Relevant compounds are not eye irritants.

Respiratory Irritation: Relevant compounds are not classified as respiratory irritants.

Respiratory Sensitization: Relevant compounds are not respiratory sensitizers.

Skin Sensitization: Components are not skin sensitizers.

Genotoxicity: Components are not mutagenic.

Carcinogenicity: None of the components are carcinogenic.

Reproductive Toxicity: None of the components are reproductive toxins.

12. Ecological Information

Toxicity: One ingredient is harmful to aquatic organisms: diisothiocyanate (Fish LC50 200 mg/L, 48 hr; Daphnia EC50 0.7 mg/L, 48 hr). But based on Additivity Formula, product is not classified in the aquatic environment.

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: Not reported to bioaccumulate.

Mobility in Soil: No data available.

13. Disposal Considerations

Dispose according to local, state and federal regulations.

14. Transport Information

Not regulated for transport by any mode.