

MATERIAL SAFETY DATA SHEET

Flamo - Wick Fuel



Section 1 – Product Identification

Product Name : Flamo Wick Fuel

Product Description: A liquid chafing fuel. The Fuel, Diethylene Glycol, is delivered via a wick protruding from a closed metal can. The product's wick is ignited and burned to provide heat for food warming application

Supplier: Gulfax Group - Dubai

Section 2 – Ingredients / Identity

Diethylene Glycol CAS# 111-46-6

Section 3 – Physical and Chemical Characteristics

Boiling Point: BP = 245° C / 473° F
Vapor Pressure: <0.01 mmHg (m) 20 C
Vapor Density (Air =1) 3.66
Melting Point: -9° C / 16° F
Solubility in Water: 100%
Specific Gravity (H2O=1): 1.1
Density: 9.3 lbs./gallon
Appearance and Odor: Clear, Colorless, slightly viscous liquid, Practically ororless.

Section 4 – Fire and Explosion Hazard Data

Flash Point (PMCC) >120° C / 250° F
Flammable Limits in Air, % by vol. Lower: 2%
Upper: 12.3%
Auto ignition temperature: 224° C /435° F
Extinguishing Media: Water spray, CO₂, Dry Chemical, Foam
Special Fire Fighting Procedure: Stop source of flame. Shut of ignition source. Keep exposed container cool with water spray. Avoid breathing vapors. Self-contained breathing apparatus and protective fire fighting clothing should be worn when fighting chemical fores.
Unusual fire and explosion Hazards: None

Section 5 – Reactive Data

This product is stable
Conditions to avoid: Avoid contacts with strong oxidizers
Conditions contributing to instability: High Temperature
Incompatibility: Strong Oxidizers, Acids and Bases
Hazardous Decomposition Products: Carbon monoxides and carbon dioxides
Hazardous Polymerization: Will not occur.

Section 6 – Health Hazard Information

Emergency Overview: Diethylene Glycol is a clear combustible liquid
Diethylene Glycol is toxic if ingested. Oral LD50 (rats) 20.76 g/kg
Precautionary Labeling: Harmful if swallowed. Keep away from Children. Contains diethylene glycol. In case material is swallowed, give milk or water. Call a doctor.
Eye Contact: Eye irritant upon direct contact
Skin Contact: May cause skin irritation upon prolong contact.
Eye Contact: Eye irritant upon direct contact
Skin Contact: May cause skin irritation upon prolonged contact.
Ingestion: Harmful or fatal if swallowed. Transient stimulation of the central nervous system , followed by depression, vomiting, drowsiness, coma, respiratory failure, renal damage, possibly leading to death.
Inhalation: Burn product in a well ventilated area. Avoid breathing unburned vapors.

Section 7 – First aid / Routes of Entry.

Eye Contact: Flush eye with large amount of water for 15 minutes. If irritation persists contact poison center or doctor
Skin Contact: Remove and isolate contaminated clothing. Flush exposed area with warm water for 15 minutes. If irritation persists, contact poison center or doctor
Ingestion: Drink sips of warm water or milk. Immeditely contact Doctor or poison center.
Inhalation: Seek fresh air and take slow deep breaths. Drink some sip of water. If cough persists contact poison center or doctor.

Medical conditions which may be Aggravated by Exposure: Overexposure is unlikely to aggravate existing medical conditions. Repeated excessive exposure may aggravate pre-existing liver and kidney disease.

Exposure Limit. No occupational exposure limit established by OSHA, ACGIH or NIOSH.

Toxicity Data Acute oral LD50 (rat) is greater than 13 g/kg if bosy weight and an acute dermal LD50 (rabbit) is greater than 13 b/kg of body weight. (see "Ingestion" above)

Carcinogen Stats: None. Based on long term animal studies, diethylene glycol is not believed to pose carcinogenic risk to man.

Hazardous Materials identification System

Health: 2, Flammability: 1, Reactivity: 0

▪ Section 8 – Stability and Reactivity

General: This product is stable, Hazardous polymerization will not occur.
Incompatible Materials: Avoid elevated temperature. Store away from sources of heat /Flame
Hazardous Decomposition : No Known

▪ Section 9 – Accidental Release Measures.

Small Spills : Remove all source of Ignition. Provide adequate ventilation. Absorb on vermiculite or other absorbent. Flush area with water.

▪ Section 10 – Handling and Storage.

Storage: Store in a cool dry place (40 – 120 degree F Or 4-49 degree C) Provide adequate ventilation in area of use. Store away from sources of heat or open flame. Keep container closed when not in use.

▪ Section 11 – Special Protection Information and Control Measures

Work / Hygiene Practices Avoid contact with skin and eyes. Under normal condition of product use, no special protection for eyes / skin is required. Remove contaminated clothing; launder or dry clean before reuse. Minimize breathing vapor or mist.

Warning: Provide adequate ventilation in area of use. When burned, carbon dioxide and carbon monoxide are formed. Do not use in product in closed or poorly ventilated area. Open a door or window to provide adequate ventilation. Keep out of the reach of children.

Precautionary Labeling

Warning: Harmful if swallowed. Keep out of reach of children. Contains: Diethylene Glycol. IF swallowed call a physician

Work Practice / Engineering Control.
Recap Container when not in use. Do not store near heat or open flame.

▪ Section 12 - Transportation

This product is not dangerous good as defined by IATA for Air Transportation.

US DOT Hazard Class: No Hazard Classification

US Dot Identification Number: Not Applicable.

UB Number: Not Applicable

IMO Hazard Class Number: Nonhazardous.

▪ Section 13 – Ecological Information

Ecotoxicity: This material is highly soluble in water. Laboratory toxicity test indicates that it is not significantly toxic to fish and aquatic invertebrates, although amphibians may be sensitive. Wildlife species may be more susceptible since mammals and birds do not readily metabolize this material. The odor and flavor of this material may attract some wildlife and cause them to consume some spilled material

Environmental Fate: This material will biodegrade relatively rapidly in both soil and water, and will not persist in the environment. Due care should be taken to avoid accidental release to aquatic or terrestrial systems. Diethylene glycol (DEG) is highly soluble in water.

Bioaccumulation: Because of this material's high solubility, and rapid biodegradability, it is unlikely that bioaccumulation will occur in aquatic and terrestrial systems. Models estimate that this material will preferentially partition to water versus air or soil.

▪ Section 14 Disposal Consideration

Note: The purchaser is responsible for proper waste disposal of empty, partial, full cans. Any disposal practice must be in compliance with local, state and federal laws and regulations. Do not dump in sewers, any body of water or onto ground.

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