

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : amheat Diethylene Glycol Liquid Chafing Fuel

CAS NUMBER : 111-46-6

GENERAL USE : Wick Chafing Fuel, A Combustible liquid canned heat, Diethylene Glycol (DEG).

COMPANY IDENTIFICATION

Diamond Line FZE

P. O. Box 33084

Jebel Ali Free Zone , Dubai, UAE

Telephone: (971) 4-883-8782

Fax : (971) 4-883-8790

E-mail : dline@emirates.net.ae

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

OSHA REGULATED COMPONENTS (present at a concentration > or = 1%):

Component	CAS #	%	PEL	TLV
Diethylenel Glycol	111-46-6	100	NE	NE

The following components, present at a concentration > or = 0.1%, are listed as carcinogens or potential carcinogens by either the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or OSHA :

Component	CAS #	%	PEL	TLV
None - not applicable				

Diethylene Glycol: EINECS number: 203-872-2 EU classification: R22-Harmful if swallowed.

SECTION 3 - HAZARDS IDENTIFICATION

Diethylene Glycol is a clear combustible liquid.

EMERGENCY OVERVIEW : 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 a large quantities of milk or water. Call a physician.

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 4 - FIRST AID MEASURES

EYE CONTACT : Flush eye with large amounts of warm water for 15 minutes. If irritation persists seek medical attention.

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 : Never give anything by mouth to an unconscious person. If swallowed, DO NOT induce vomiting. Give large quantities of water or milk. If vomiting occurs spontaneously, keep airway clear and give more water. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION : Seek fresh air and take slow deep breaths. Drink some sips of water. If coughing persists, contact poison center or doctor.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD) : 255 degrees F or 124 degrees C (Tag closed cup)

AUTOIGNITION : @ 745 mm Hg : 444 degrees F (230 degrees C)

EXPLOSIVE LIMIT : Lower Limit: 1.6% Upper Limit 10.8%

EXTINGUISHING MEDIA : CO₂, Foam, Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES : No known toxic combustion products or special fire fighting hazards. Self-contained breathing apparatus and protective clothing should be worn when fighting chemical fires. Do not use high pressure stream of water to extinguish burning material.

NFPA Rating : 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme: Health-1, Flammability-1, Reactivity-0

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Person Related Safety Precautions

Keep people at a safe distance and stay on the windward side. Wear protective clothing (against inhalation and liquid contact) Keep away from ignition sources. Ensure adequate ventilation

Measures for environmental protection

Do not allow product to reach sewage system or water bodies. Prevent from spreading. Damp down gases/fumes/haze with water spray jet Inform respective authorities in case of product reaches water or sewage system.

Measures for cleaning/collecting

Large amounts must be removed by shovel. Finally flush with large amounts of water.

SECTION 7 - HANDLING AND STORAGE

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

HANDLING : Avoid contact with skin and eyes. Do not ingest. Place can in fuel holder or under chafer before lighting. Burn can in a level upright position. Keep away from combustibles (e.g. paper plates and napkins). Keep away from children.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONTROLS : Avoid contact with skin and eyes. Provide adequate ventilation.

PROTECTIVE CLOTHING : The use of eye protection (goggles) and rubber gloves is recommended.

RESPIRATORS : Not required unless exposed to high concentrations above approved guidelines.

SPECIAL PRECAUTIONS : Keep out of the reach of children.

PRECAUTIONARY LABELING : Caution flammable mixture. Keep away from children. Do not use near fire or flame.

EXPOSURE GUIDELINES : Diethylene Glycol OSHA PEL = 2.5 ppm (TWA)

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR : Clear colorless slightly viscous liquid with mild odor. pH: N/A

DENSITY : 1.1 g/cm³

BOILING RANGE : 473 F (245 C)

VAPOR PRESSURE : 0.02 mm Hg @ 68 F (20 C)

VAPOR DENSITY : 3.5 (Air = 1)

SOLUBILITY IN WATER : Miscible/Complete.

SECTION 10 - STABILITY AND REACTIVITY

GENERAL : This product is stable. Hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS : Heat, open flame, strong oxidizers.

HAZARDOUS DECOMPOSITION : Burning may cause carbon dioxide and/or carbon monoxide if inadequate oxygen.

SECTION 11 - TOXICOLOGICAL INFORMATION**ACUTE TOXICITY**

ORAL: Rat LD50 : 12.6 g/kg

DERMAL: Rabbit LD 50 : 11.9 mg/kg

IRRITANT AND CORROSIVE EFFECT : Slightly irritating to skin

ADDITIONAL INFORMATION : The product was classified on the basis of the calculation procedure of the preparation directive (1999/45/EC)

SECTION 12 - ECOLOGICAL INFORMATION**THE PRODUCT IS BIODEGRADABLE**

SPILL INTO WATER : Product is fully miscible in water. Prevent spreading. Be aware of water intakes and do not allow undiluted product or large quantities of it to reach ground water bodies or sewage systems. If this should happen, inform authorities and warn possible users.

SPILL IN ROAD/STREET : Take large amount of spill with shovel. Then flush with large amount of water.

SECTION 13 - DISPOSAL CONSIDERATIONS**RECOMMENDATION :**

- Must not be disposed of together with household garbage.
- Do not allow to reach sewage system.
- Must be incinerated in accordance with local regulations.
- Spill and residue shall be kept and shall be delivered to an approved effluent treatment plant of a terminal for problem waste together with information about the amount of waste its properties and hazard factors.
- Cleaning agents: Water, if necessary with cleaning agent.

SECTION 14 - TRANSPORTATION

DOMESTIC : This product is not regulated as a DOT hazardous material.

INTERNATIONAL : This product is not regulated as a DOT hazardous material.

SECTION 15 - REGULATORY INFORMATION

OSHA : This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

RCRA (40 CFR 261, Subpart D) : None of the OSHA regulated components in this product are listed as hazardous wastes under 40 CFR261 (subpart D).

CLEAN WATER ACT : None of the OSHA regulated components in this product are Section 311 listed chemicals.

SARA : Sections 301-304 (Threshold Planning Quantity - TPQ) 40 CFR 355: No TPQ for any OSHA regulated component. Section 313 (Toxic chemical release reporting) 40 CFR 372: The following chemicals must be reported under SARA 313: Not applicable to any OSHA regulated component.

PRODUCT LABELING INFORMATION:

SYMBOL : Xn-Harmful.

RISK PHRASES : Highly flammable; Harmful by inhalation, in contact with skin and if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed. Risk Phrases in Section 2 : R 22 : Harmful if swallowed.

SAFETY PHRASES : Keep out of reach of children. Keep away from sources on ignition – NO SMOKING. If swallowed seek medical advice immediately and show this container label. Keep container tightly closed and in a well ventilated place. Dispose of this material and its container to hazardous or special waste collection point.

German Water Classification (WGK) : 1,

SECTION 16 - OTHER INFORMATION**Recommended Uses**

- In keeping meals warm and hot, in lighting up the mangle charcoals, barbeque fuel, practical heating source for mountain climbers and for warming canned meal.
- These data are based on our present knowledge of this product and its individual components. The information contained here in is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and the attention of the user is drawn to the possible risk incurred by using the product for any other purpose other than that for which it was intended.