

SAFETY DATA SHEET

PRODUCT: **Wik Chafing Dish**

June 30, 2014

MANUFACTURER *Kelmin Products, Inc.*
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PRODUCT CODES W224 W424 W424T W624

PRODUCT DESCRIPTION A metal can, cap & innerseal with a fiberglass wick using the Chemical **Diethylene Glycol** as a fuel source.
Minimum fuel per can 2 fluid ounces.
Maximum fuel per can 10 fluid ounces.

CAN, CAP, INNERSEAL AND FIBERGLASS WICK ARE INERT INGREDIENTS. THE BALANCE OF THIS MATERIAL SAFETY DATA SHEET ONLY PERTAINS TO THE CHEMICAL INGREDIENT, DIETHYLENE GLYCOL.

CHEMICAL FAMILY Glycol

CHEMICAL NAME Diethylene Glycol
(Synonyms: DEG 2.2' Dihydroxyethyl Ether, Ethanol, 2.2' oxybis; Diglycol; Ethylene Diglycol)

CAS NUMBER 111-46-6

NFPA CODES Flammability 1 0=None
Reactivity 0 4=Extreme
Health Toxicity 1

Poison Control Center 1.800.222.1222

HAZARDS IDENTIFICATION

Classification of the substance or mixture This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910. 1200.

Potential Health Effects

Carcinogenicity:

IARC No component of this product present at levels greater Than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH No component of this product present at levels greater Than or equal to 0.1% is identified as a carcinogen or Potential carcinogen by ACGIH

OSHA No component of this product present at levels greater Than or equal to 0.1% is identified as a carcinogen or Potential carcinogen by OSHA

NTP No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated carcinogen by NTP

COMPOSITION/INFORMATION ON INGREDIENTS:

OSHA REGULATED COMPONENTS (present at a concentration $\geq 1\%$):

<u>COMPONENT</u>	<u>CAS#</u>	<u>%</u>
Diethylene Glycol	111-46-6	99-100
Ethylene Glycol	107-21-1	0-1

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

<u>COMPONENT</u>	<u>CAS#</u>	<u>%</u>	<u>PEL</u>	<u>TLV</u>
None - not applicable				

FIRST AID

Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.
Eye Contact	Flush eye with large amount of water for at least 15 minutes while holding eyelid open. Get medical attention immediately.
Skin Contact	Remove contaminated clothing and wash affected skin area with soap and water. Do not use contaminated clothing until thoroughly washed with soap and water.
Ingestion	Do not induce vomiting. Get medical attention immediately.

FIRE FIGHTING MEASURES

Extinguishing Media	Use water fog, water, dry chemical, carbon dioxide
Special Fire Fighting Procedures	Material will not burn unless preheated. Do not enter a confined fire space where cases of this product are stored without full bunker gear, including a positive pressure self-contained breathing apparatus (SCBA) Cool fire exposed containers with water.
Hazardous combustion products	Carbon monoxide, Carbon dioxide, Smoke.

ACCIDENTAL RELEASE MEASURES

Environmental precautions	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so If the product contaminates rivers and lakes or drains Inform respective authorities.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material (e.g.sand,silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal

HANDLING AND STORAGE

General Handling: Avoid contact with eyes, skin, and clothing. Do not swallow. Was thoroughly After handling.

EXPOSURE CONTROL/PERSONAL PROTECTION

Diethylene glycol Ethylene glycol	AIHA WEEL ACGIH	TWA 10mg/m ³ Ceiling 100mg/m ³ Aerosol
Respiratory Protection		None expected to be needed at normal room temperatures.
Eye Protection		None expected to be needed when handled according to directions on the can.
Skin Protection		Wash areas of contact with the liquid with soap and water.
Hygiene measures		When using do not eat or drink When using do not smoke Wash hands before breaks and at the end of workday.
Ventilation		Use local exhaust ventilation, or other engineering controls To maintain airborne levels below exposure limit requirements or guidelines. General ventilation should be sufficient for most operations.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Viscous
Colour	Colourless
Odour	Sweet, very faint
Odour Threshold	No data available
ph	No data available
Freezing Point (Freezing Point)	-6.5 °c (20.3 °F)
Boiling Point (Boiling Point/boiling range)	245 °C (280 °F)
Flash Point	138 °C (280 °F)
Evaporation rate	No data available
Flammability (solid,gas)	No data available
burning rate	No data available
Upper explosion limit	12.3 %(v)
Lower explosion limit	2.0 %(v)
Vapour pressure	0.002 mmHg @ 20 °C (68 °F)
Relative vapour density	3.65
Relative density	1.118
Density	1.8 g/m ³ @ 20 °C (68 °F)
Bulk density	No data available
Water Solubility	No data available
Solubility in other solvents	No data available
Partition coefficient:n-Octanol/water	log pow Estimated -1.98
Auto-ignition temperature	229 °C
Thermal decomposition	No data available

STABILITY AND REACTIVITY

Reactivity	No dangerous reaction known under conditions of Normal use.
Chemical stability	Stable under normal conditions
Possibility of hazardous Reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Exposure to elevated temperatures can cause product To decompose. Generation of gas during decomposition can cause pressure in closed system.
Incompatible materials	Strong acids Strong bases Strong oxidizing agents
Hazardous decomposition	May form Aldehydes Alcohols Ethers Carbon dioxide and carbon monoxide

TOXICOLOGICAL INFORMATION

Acute Toxicity Ingestion: Oral toxicity is expected to be moderate in humans due to Diethylene glycol. Animals show a lower degree of toxicity. May cause nausea and vomiting. May cause abdominal Discomfort or diarrhea. Excessive exposure may cause central nervous system effects, cardiopulmonary effects (metabolic acidosis), and kidney failure. Estimated. Lethal Dose, Human, adult 2 ounces
LD50, rat, male, 9600 mg/kg.

Aspiration hazard: Bases on physical properties, not likely to be an aspiration hazard.

Dermal: Prolonged skin contact is unlikely to result in absorption of harmful amounts. Repeated Skin exposure to large quantities may result in absorption of harmful amounts. Massive contact With damaged skin or of material sufficiently hot to burn skin may result in absorption of potentially lethal amounts.
LD50, rabbit 13,330 mg/kg

Inhalation: At room temperature, exposure to vapor is minimal due to low volatility. With good Ventilation, single exposure is not expected to cause adverse effects. If material is heated or areas Are poorly ventilated, vapor/mist may accumulate and cause respiratory irritation and symptoms such as headache and nausea.
The LC50 value is greater than the Maximum Attainable Concentration. LC50 4 h, Aerosol, rat > 4.6 mg/l
No deaths occurred at this concentration.

Eye damage/eye irritation: May cause slight temporary eye irritation. Corneal injury is unlikely.

Skin corrosion/irritation: Prolonged contact is essentially nonirritating to skin.

Sensitization

Skin: Did not cause allergic skin reactions when tested in humans. Did not cause allergic skin Reactions when tested in guinea pigs.

Respiratory: No relevant data found.

Repeated Dose Toxicity: In humans, effects have been reported on the following organs: Kidney. Gastrointestinal tract. In humans, symptoms may include: Headache. Nausea and/or vomiting. Abdominal discomfort. In animals, effects have been reported on the following organs: Liver.

Chronic Toxicity and Carcinogenicity: Diethylene glycol has been tested for caercinogenicity In animal studies and is not believed to pose a carcinogenic risk to man.

Developmental Toxicity: Diethylene glycol has caused toxicity to the fetus and some birth defects at maternally toxic, high doses in animals. Other animal studies have not reproduced birth defects even at much higher doses that caused severe maternal toxicity.

Reproductive Toxicity: Diethylene glycol did not interfere with reproduction in animal studies expect at very high doses.

Genetic Toxicology: In vitro genetic toxicity studies were negative. Animal genetic toxicity studies Were negative.

TRANSPORTATION INFORMATION

Shipping Name	Diethylene Glycol
Hazard Class	Non-hazardous Liquid
UN Number	N/A

Proper Shipping Name Not Regulated

Hazard Label N/A

TOXICOLOGICAL INFORMATION

Acute oral toxicity

Diethylene Glycol LD 50 Rat: 12,565 mg/kg

Acute inhalation toxicity

Diethylene Glycol LC Lo Mouse: 130 mg/m³ , 2 h

Acute dermal toxicity

Diethylene Glycol LD 50 Rabbit: 13,300 mg/kg

ECOLOGICAL INFORMATION

Aquatic toxicity

Acute and Prolonged Toxicity to Fish

96 h LC 50 Western mosquitofish (*Gambusia affinis*), : > 32,000 mg/l Mortality

Acute Toxicity to Aquatic Invertebrates

24 h LC 50 Water flea (*Daphnia magna*), : > 10,000 mg/l

Mortality 24 h LC 50 Water Flea (*Daphnia magna*), : > 10,000 mg/l

REGULATORY INFORMATION

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

This product contains **no** chemicals subject to the reporting requirements of CERCLA.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III

This product contains **no** chemicals subject to the reporting requirements of SARA Title III, Section 311, 312

Subpart Z, OSHA

This product contains **no** chemicals that are on the list of chemicals that have substance-specific requirements.

This product is considered hazardous under the OSHA Hazardous Communication Standard (29 CFR 19/0. 1200)

Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List And/Or Pennsylvania Environmental Hazardous Substance List: The Following Product Components Are Cited In The Pennsylvania Hazardous Substance List And/Or The Pennsylvania Environmental Substance List, And Are Present At Levels Which Require Reporting.

Component	CAS#	Amount
Diethylene Glycol	111-46-6	> 99.0 A

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act Of 1986)

Warning: This Product Contains A Chemical (S) Known To The State Of California To Cause Cancer.

Component	CAS#	Amount
1,4 - Dioxane	123-91-1	<= 0.5 PPM

California Proposition 65 (Safe Drinking Water And Toxic Enforcement Act Of 1986)

Warning: This Product Contains A Chemical (S) Known To The State Of California To Cause Birth Defects Or Other Reproductive Harm.

Component	CAS#	Amount
Ethylene Glycol Monomethyl Ether	109-86-4	<= 0.05 PPM

CEPA-Domestic Substance List (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List or are not required to be listed.

NOTE

This product is to be used as specified on the box and can only. Keep out of the reach of children. Do not take internally. Never leave an open flame unattended.

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