

MSDS# Pro-Tek EG
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Pro-Tek EG

SECTION 1. PRODUCT NAME

Catalog No. SCM-123
 Manufacturer: Diversitech
 Address: 6650 Sugarloaf Parkway, Duluth, GA
 Chem-Tel Phone: (800) 255-3924 – (Chemical Emergencies Only)
 Phone Number for Information: (678) 542-3600
 Fax: (678)-542-3700
 Date Revised: June 16, 2008
 Name of Preparer: Anthony Jernigan

SECTION 2. HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS No.	OSHA PEL	ACIGH TLV	OTHER STEL	% or Range
1,2-ethanediol (Common Name-Ethylene glycol)	107-21-1	50 ppm CEILING-OSHA			~95
Phosphoric acid, dipotassium salt	7758-11-4				1.00-2.99

SECTION 3. HAZARDS IDENTIFICATION

	HMS	NFPA
Health:	2	2
Flammability:	1	1
Reactivity:	0	0

KEY: 0 – Minimal, 1 – Slight, 2 – Moderate, 3 – Serious, 4 – Severe

Potential Health Effects

Routes of Exposure: Inhalation, Ingestion, Skin Contact/Absorption, Eye Contact
Eye: May cause minor eye irritation.
Skin: No significant adverse effects are expected under anticipated conditions of normal use. Repeated, prolonged exposure may cause slight flaking, tenderness, and softening of skin.
Ingestion: Harmful if swallowed Aspiration hazard if swallowed - can enter lungs and cause damage. Can cause liver and kidney damage if swallowed.
Inhalation: may cause dizziness and drowsiness. If effects do occur, refer to FIRST AID in Section 4.
Signs and Symptoms of Overexposure: Same as above
Medical Conditions Generally Aggravated by Exposure: Material and/or its emissions may aggravate preexisting eye disease.
Other Health Information: Warning: Contains ethylene glycol which may cause birth defects based on animal data. This product is not to be used in food, drug, cosmetic or potable water applications.

SECTION 4. FIRST AID MEASURES

Eyes: Immediately flush eyes with large amounts of water for 15 minutes, lifting lower and upper lids. Obtain medical attention if pain, blinking, tears or redness persist.
Skin: Product is not expected to present a significant skin hazard under anticipated conditions of normal use.
Inhalation: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.
Ingestion: Ethylene glycol (EG) and diethylene glycol (DEG) intoxication may initially produce behavioral changes, drowsiness, vomiting, diarrhea, thirst, and convulsions. EG and DEG are nephrotoxic. End stages of poisoning may include renal damage or failure with acidosis. Supportive measures, supplemented with hemodialysis if indicated, may limit the progression and severity of toxic effects.

FOR ETHYLENE GLYCOL POISONING intravenous ethanol is a recognized antidotal treatment ; other antidotal treatments also exist for EG poisoning. Contact a Poison Center for further treatment information.

Aspiration of this product during induced emesis may result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Center for additional treatment information.

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SECTION 5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point: 260°F COC)

Flammability Limits

Lower Flammability Limit: Not Determined

Upper Flammability Limit: Not Determined

Extinguishing Media: Use carbon dioxide, dry chemical, alcohol type foam, water spray, water fog to extinguish fires involving this product.

Special Fire Fighting Procedures: Wear positive pressure, self-contained breathing apparatus and other protective apparatus as warranted. Fight fire from distance or protected location – heat may build up pressure and rupture closed containers. Liquid may form slippery film. Notify authorities if liquid enters sewers/ public waters.

Unusual Fire and Explosion Hazards: Heat from fire can generate flammable vapor. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air and travel long distances along ground before igniting and flashing back. Fine sprays and mists may be combustible at temperatures below normal flash point.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Emergency Contacts: Chemtel 800-255-3924

Steps to be Taken in Case Material is Released or Spilled: Prevent flow to sewers and public waters as it may contaminate said water. Restrict usage to prevent slip/fall hazard. Soak up small spills with inert solids. Dike and recover large land spills. Notify appropriate authorities if product enters any waterways.

SECTION 7. CONTROL MEASURES

Product on surfaces can cause slippery conditions. Practice reasonable care and cleanliness. Avoid breathing spray mists if generated. Keep out of reach of children. Product may become a solid at temperatures below -22°C (-8°F). Do not store near food, foodstuffs, drugs or potable water supplies.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: No special respiratory protection equipment is recommended under normal conditions of anticipated use with adequate ventilation.

Ventilation: Adequate general ventilation is required, local exhaust is recommended if possible.

Protective Gloves: Not required.

Eye Protection: Safety goggles and face shield. Emergency eyewash should be available. Contact lenses should not be worn when working with this chemical.

Engineering Controls: Keep containers closed when not in use.

Personal Hygiene: If product handling results in skin contact, wash hands and other exposed areas with mild soap and water before eating, drinking, smoking, or using the toilet facilities. Promptly remove soiled clothing and wash before reuse.

SECTION 9. PHYSICAL PROPERTIES

Boiling point: 198°C (388°F)

Specific gravity (water = 1): 1.13

Vapor pressure @ 20 °C: <0.1 mm hg

Water solubility: miscible

Appearance and odor: Slightly viscous, odorless pink liquid

Freeze point: -8°F

Pounds / gallon: 9.4

Vapor density (air = 1): 2.1

Evaporation rate (buac = 1): slight

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Heat, sparks, open flame.

Materials to Avoid: Strong alkalis, strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide and other toxic vapors.

Hazardous Polymerization: Not expected to occur.

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SECTION 11. TOXICOLOGICAL INFORMATION

Skin: (Draize) Believed to be > .50 - 1.00 /8.0 (rabbit) slightly irritating
Eyes: (Draize) Believed to be > 15.00 - 25.00 /110 (rabbit) slightly irritating
Sensitization: Not determined.
Oral: Animal data does not reflect human toxicity; see Sections 3 & 11
Inhalation: Not determined.
Dermal: LD50 Believed to be > 1.00 - 2.00 g/kg (rabbit) slightly toxic

IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)

Oral administration of ethylene glycol to pregnant experimental animals has been shown to cause birth defects in the offspring. These effects were not seen when ethylene glycol was administered by dermal application or by inhalation. Continuous ingestion of a diet containing 1% or 2% ethylene glycol for two years produced liver and kidney damage, and bladder stones in rats.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Fate

Persistence and Biodegradability: This product is considered to be readily biodegradable and is not expected to persist in the environment

Potential to Bioaccumulate: None This product is not expected to bioaccumulate.

Aquatic Toxicity: Not determined. Aquatic toxicity rating is believed to be > 100.00 mg/liter practically nontoxic to aquatic organisms.

SECTION 13. TRANSPORT INFORMATION

Identification Number: Not regulated

DOT: Not regulated

Hazard Class:

Packing Group:

Label Required:

IMDG: Not regulated

ICAO: Not regulated

TDG: Not regulated

Depending on container size, spills of this product may require reporting under SARA 304 and/or CERCLA 102(A) regulations. Please refer to Sections 2 and 14 of MSDS for composition and component RQ information.

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SECTION 14. REGULATORY INFORMATION

Federal Regulations:

SARA Title III:

Section 302/304 Extremely Hazardous Substances

None.

Section 311 Hazardous Categorization:

Section 313 Toxic Chemical

Chemical Name

CAS Number

Range in %

1,2-ethanediol (Common Name-Ethylene glycol) 107-21-1 95.00-99.99

CERCLA 102(a)/DOT Hazardous Substances:

Acute X Chronic X Fire Pressure Reactive N/A

TSCA Inventory Status:

This product, or its components, are listed on or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

States Right-to-Know Regulations:

INTERNATIONAL REGULATIONS:

WHMIS Classification:

Class D, Div 1, Subdiv B: Toxic Class D, Div 2, Subdiv A: Teratogenic

Canadian Inventory Status:

This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).

EINECS Inventory Status:

This product, or its components, are listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).

Australian Inventory Status:

Japan Inventory Status:

Not determined

This product, or its components, are listed on or are exempt from the Australian Inventory of Chemical Substances (AICS).

Chemical Name CAS Number 1,2-ethanediol FL, IL, MA, NJ, PA, RI

RQ Range in % None.

California Prop. 65:

The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity. CT (Connecticut), FL (Florida), IL (Illinois), MI (Michigan), LA (Louisiana), MA (Massachusetts), NJ (New Jersey), PA (Pennsylvania), RI (Rhode Island)

State list:

SECTION 15. OTHER INFORMATION

This information is, to the best of our knowledge and belief, accurate and reliable as of the date completed. However no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the completeness and suitability of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer any warranty against patent infringement.