



SAFETY DATA SHEET

ENCORE HVAC INHIBITED ETHYLENE GLYCOL

CONTACT INFORMATION:

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COMPOSITION / INFORMATION ON INGREDIENTS:

Ethylene Glycol	CAS# 000057-55-6	96%
Dipotassium Phosphate	CAS# 007758-11-4	<4%
De-Ionized Water	CAS# 007732-18-5	BAL.

HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW

→ Clear liquid. Odorless. Avoid temperatures above 450°F, 232°C.

Potential Health Effects (See Toxicological Data)

- **EYE:** May cause slight transient (temporary) eye irritation. Corneal injury is unlikely. Mists may cause eye irritation.
- **SKIN CONTACT:** Prolonged contact is essentially nonirritating to skin. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. Repeated exposures may cause flaking and softening of skin.
- **INGESTION:** Single dose oral toxicity is considered to be extremely low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.
- **INHALATION:** At room temperature, vapors are minimal due to physical properties. Mists may cause irritation of upper respiratory tract (nose and throat).

- **SYSTEMIC (OTHER TARGET ORGANS) EFFECTS:** Repeated excessive exposure to propylene glycol may cause central nervous system effects.
- **CANCER INFORMATION:** Did not cause cancer in laboratory animals.
- **TERATOLOGY (BIRTH DEFECTS):** Birth defects are unlikely. Exposures having no adverse effects on the mother should have no effect on the fetus.
- **REPRODUCTIVE EFFECTS:** In animal studies, has been shown not to interfere with reproduction.

FIRST AID:

- **EYES:** Flush eyes with plenty of water.
- **SKIN:** Wash off in flowing water.
- **INGESTION:** No adverse effects anticipated by this route of exposure.
- **INHALATION:** Remove to fresh air if effects occur. Consult a physician.

****NOTE TO PHYSICIAN:** No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient.

FIRE FIGHTING:

FLAMMABLE PROPERTIES:

Flash Point: 214°F, 107°C (based on similar material)
Method Used: PMCC

FLAMMABILITY:

UFL: Not determined.
LFL: Not determined.

HAZARDOUS COMBUSTION PRODUCTS:

During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to carbon monoxide and carbon dioxide.

OTHER FLAMMABILITY INFORMATION:

Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Flammable concentrations or vapor can accumulate at temperatures above 214°F. Liquid mist of this product can burn. Spills of these organic liquids on hot fibrous insulations may lead to lowering of the auto ignition temperatures possibly resulting in spontaneous combustion. Container may rupture from gas generation in fire situation.

EXTINGUISHING MEDIA:

Water fog or fine spray, carbon dioxide, dry chemical, foam. Alcohol resistant foams (ATC type) are preferred if available. General purpose synthetic foams (including AFFF) or protein foams may function but much less effectively. Do not use direct water stream, may spread fire.

MEDIA TO BE AVOIDED:

DO NOT use direct water stream.

FIRE FIGHTING INSTRUCTIONS:

Keep people away. Isolate fire area and deny unnecessary entry. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Burning liquids may be extinguished by dilution with water. Do not use direct water stream, may spread fire. Fight fire from protected location or safe distance. Consider use of unmanned hose holder or monitor nozzles. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Immediately withdraw all personnel from area in case of rising sound from venting safety device or discoloration of the container. Move container from fire area if this is possible without hazard.

PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, pants, boots and gloves). If protective equipment is not available or not used, fight fire from protected location or safe distance.

ACCIDENTAL RELEASE MEASURES:

(SEE ALSO REGULATORY INFORMATION)

PROTECT PEOPLE:

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls / Personal Protection.

PROTECT THE ENVIRONMENT:

Avoid contamination of all waterways.

CLEAN-UP:

See Disposal Considerations.

HANDLING AND STORAGE:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

No special handling requirements data available.

HANDLING:

See exposure Controls / Personal Protection.

STORAGE:

See Stability and Reactivity.

EXPOSURE CONTROLS / PERSONAL PROTECTION:

ENGINEERING CONTROLS:

Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

PERSONAL PROTECTIVE EQUIPMENT:

- **EYE/FACE PROTECTION:** Use safety glasses. Safety glasses should be sufficient for most operations; however, for misty operations wear chemical goggles.
- **SKIN PROTECTION:** Use gloves impervious to this material.
- **RESPIRATORY PROTECTION:** Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. In misty atmospheres, use an approved mist respirator.

EXPOSURE GUIDELINES:

Propylene Glycol: AIHA WEEL is 50 ppm, total, 10 mg/m³ aerosol ONLY.

PHYSICAL AND CHEMICAL PROPERTIES:

Appearance / Physical State:	Clear Liquid
Odor:	Odorless
Vapor Pressure:	0.22 mmHg @ 20°C
Vapor Density:	2.6
Boiling Point:	320°F, 160°C
Solubility in Water:	Complete
Specific Gravity / Density:	1.058 @ 25/25 C

STABILITY & REACTIVITY:

Chemical Stability → Thermally stable at typical use temperatures.

Conditions to Avoid → Avoid temperatures above 450°F, 232°C. Product can degrade at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.

Incompatibility with Other Materials → Avoid contact with oxidizing materials. Avoid contact with strong acids.

Hazardous Decomposition Products → Hazardous decomposition products depend upon temperature, air supply and the presence of other materials.

Hazardous Polymerization → Will not occur.

TOXICOLOGICAL INFORMATION:

Skin: The LD50 for skin absorption in rabbits is >10,000 mg/kg.

Ingestion: The oral LD50 for rats is 20,000 – 34,000 mg/kg.

Mutagenicity: In vitro mutagenicity studies were negative.

ECOLOGICAL INFORMATION:

Movement & Partitioning:

Based largely or completely on data for major component(s). Bio concentration potential is low (BCF less than 100 or Log Pow less than 3). Potential for mobility in soil is very high (KOC between 0 and 50).

Degradation & Persistence:

Based largely or completely on data for major component(s). Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Degradation is expected in the atmospheric environment within minutes to hours.

Eco toxicity:

Based largely or completely on data for major component(s). Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 > 100 mg/L in most sensitive species).

DISPOSAL CONSIDERATIONS:

Disposal:

- DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER.
- All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. (Regulations may vary in different locations)
- Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.
- ENCORE PETROLEUM has no control over the management practices or manufacturing processes of parties handling or using the material.
- The information presented here pertains ONLY to the product as shipped in its intended condition as described in the Composition/Information on Ingredients section.

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destruction device.

As a service to its customers, ENCORE PETROLEUM can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals/plastics and that also manage used 55-Gallon Drums.

→ Call ENCORE PETROLEUM at (201)339-6100 for further details.

TRANSPORT INFORMATION:

DEPARTMENT OF TRANSPORTATION (D.O.T.):

For D.O.T. regulatory information, if required, consult transportation regulations, product shipping papers or contact your Encore representative.

REGULATORY INFORMATION:

(NOT MEANT TO BE ALL-INCLUSIVE, SELECTED REGULATIONS REPRESENTED)

- ❖ NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities comply with federal, state or provincial and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS:

SARA 313 INFORMATION:

- To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY:

- This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:
 - TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.
 - STATE RIGHT-TO-KNOW: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in composition section of the SDS.

<u>CHEMICAL NAME:</u>	<u>CAS NUMBER:</u>	<u>LIST</u>
1,2-PROPANEDIOL	000057-55-6	PA1

PA1= Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%)

OSHA HAZARD COMMUNICATION STANDARD:

This product is not a 'Hazardous Chemical' as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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