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MATERIAL SAFETY DATA SHEET

The Coastal Corporation

Coastal Oil New York, Inc.
 Coastal Oil New England, Inc.
 Coastal Fuels Marketing, Inc.
 Coastal Mobile Refining Company
 Coastal Darby Refining Company
 Coastal Eagle Point Oil Company
 Coastal Mart, Inc.
 Coastal Refining & Marketing, Inc.

Coastal States Crude Gathering Co.
 Coastal States Trading, Inc.
 Coastal Unilube, Inc.
 Coscol Marine Corporation
 Coscol Petroleum Corporation
 Pacific Refining Company
 Western Fuel Oil Company
 Coastal Fuel Terminals, Inc.

Address: 9 Greenway Plaza
 Houston, TX 77046

Info Phone: (901) 525-2300
 Emergency Phone: (713) 877-1400

PRODUCT IDENTIFICATION

Trade Name: Carquest Antifreeze and Coolant Date Revised: May 11, 2000
 Synonyms/Product Code: EG, Glycol, Antifreeze, 1,2-Ethanediol
 Chemical Name: Ethylene Glycol, C₂H₄O₂
 Family Description: Glycols
 DOT Hazard Class: Not Applicable

COMPOSITION

Product	CAS Number	Wt%	Occupational Exposure Limits*			Units
			OSHA PEL	ACGIH TLV	Other	
Carquest Antifreeze & Coolant	Mixture	100	N.A.	N.A.		

Ingredient(s):

Ingredient	CAS Number	Wt%	OSHA PEL	ACGIH TLV	Other	Units
Ethylene Glycol	107-21-1	98-99	50 C	50 C		ppm
Diethylene Glycol	111-46-6	1-2	N.A.	N.A.		

* = 8-Hr. TWA unless otherwise specified.
 C = Ceiling Limit.
 N.A. = Not Available.

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PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point 760 mmHg:	388°F	Melting Point: N.A.
Vapor Pressure mmHg @ 70°F:	<0.1	Vapor Density (air=1): >1
Solubility in H ₂ O %:	100	pH: 11.0
Specific Gravity (H ₂ O):	1.13 @60°F	Evaporation Rate: <0.01 (n-Butyl Acetate=1)
% Volatile by Volume:	N/A	Odor: Mild Sweet Odor
Viscosity (method, temp):	24Cp @65°F	
Appearance: Fluorescent Green Liquid		

N.A. = Not Available

FIRE AND EXPLOSION DATA

Flash Point:	220°F
Flammable Limits in Air % by Vol.:	Lower: 3.2 (Estimated) Upper: 15.3 (Estimated)
Autoignition Temperature:	N.A.
Extinguishing Media:	Dry chemical, foam, carbon dioxide, or water spray.
Special Fire Fighting Procedure:	Water spray should be used to keep fire-exposed containers cool. Do not spray pool fires directly. A solid stream of water or foam directed into hot, burning liquid can cause frothing. Firefighters should wear self-contained breathing apparatus.
Unusual Fire or Explosion Hazard:	May ignite when sufficient heat is applied.

REACTIVITY DATA

Stability:	Stable
Hazardous Polymerization:	Will not occur.
Conditions to Avoid/Incompatibility:	Strong oxidizing agents, heat, spark, and flame.
Hazardous Decomposition Products:	Carbon monoxide and/or carbon dioxide.

HEALTH HAZARD DATA

This product has not been tested as a whole to determine its specific health hazards. The information provided in this section is based on health hazard information on the product components.

Carcinogenicity; NTP: No Occupational Exposure Limits:	IARC Monographs: No See <u>COMPOSITION</u> section.	OSHA Regulated: No
Effects of Overexposure:		

Acute:

Eyes:

Slight eye irritation.

Skin:

Slightly irritating to skin after prolonged contact.

Inhalation:

Exposure to vapors or mist may result in irritation of respiratory tract, headache, drowsiness, dizziness, or nausea.

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Ingestion: Ingestion may be fatal. Ethylene glycol has a single oral dose lethal to man of approximately 100 ml for a 70 kg human. Ingestion may cause abdominal discomfort or pain, dizziness, lumbar pain and may produce central nervous system (CNS) depression and severe kidney damage. Diethylene glycol ingestion may produce liver damage.

Chronic: Not readily absorbed through the skin in acutely toxic amounts. However, prolonged or repeated contact may be slightly toxic to the skin.

**Additional Medical and
Toxicological Information:**

May aggravate preexisting skin, eye, and respiratory disorders. Preexisting disorders of the kidney and liver may be aggravated by exposure to this product. There is no evidence to suggest that ethylene glycol has caused birth defects in humans. However, ethylene glycol has been shown to produce dose-related teratogenic effects in rats and mice when administered in high concentrations.

EMERGENCY FIRST AID PROCEDURES

Eye Contact: Immediately flush with large amounts of water for at least 15 minutes, including under the eyelids. Contact a physician immediately, preferably an Ophthalmologist. Speed and thoroughness in rinsing eyes are important to avoid permanent injury.

Skin Contact: Immediately remove contaminated clothing and shoes. Wash affected areas with soap and flush with large amounts of water. If irritation persists, get medical attention.

Inhalation: Remove to fresh air. If breathing has stopped, apply artificial respiration. Get immediate medical attention.

Ingestion: Get the affected person to drink large amounts of water and then induce vomiting. Get immediate medical attention.

SPECIAL PROTECTION INFORMATION

Eye Protection: Remove contact lenses and wear chemical safety goggles where contact with liquid or mist may occur.

Skin Protection: Wear impervious gloves when contact with skin may occur. Use face shield where splashing may occur. Wash with soap and water before eating, drinking or smoking. Launder contaminated clothing before reuse.

Inhalation: Use approved respiratory protective equipment for cleaning large spills or entry into large tanks, vessels or other confined spaces or in situations where exposure may exceed occupational exposure levels.

Ventilation: Provide adequate general and local exhaust ventilation: (1) to keep mist or vapors below occupational exposure levels; (2) to prevent the formation of an oxygen deficient atmosphere, particularly in a confined space.

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SPILL OR LEAK AND DISPOSAL PROCEDURES

Spill Procedures:

Remove sources of heat and ignition. Remove spill with vacuum trucks or pump to storage/salvage vessels and soak up residue with an absorbent. Use approved respirator where occupational exposure limits may be exceeded.

Waste Disposal:

Dispose through a licensed waste disposal company. Follow federal, state and local regulations.

SPECIAL PRECAUTIONS AND COMMENTS

Storage Requirements:

Store in tightly closed containers in a cool, dry place, away from incompatible materials or sources of heat, ignition or strong oxidizers. Maintain minimum feasible handling temperatures (less than 120°F). Empty containers may contain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition.

SARA TITLE III INFORMATION

Section 311/312 Hazard Categorization

<u>Acute</u>	<u>Chronic</u>	<u>Fire</u>	<u>Pressure</u>	<u>Reactive</u>
X	X			

SARA Hazardous Substances

<u>Ingredient</u>	<u>CAS No.</u>	<u>% Wt</u>	<u>Sec 313</u>	<u>Sec 302</u>	<u>RQ, lb</u>	<u>TPQ, lb</u>
Ethylene Glycol	107-21-1	98-99	X			

- Key: Sec 313 - Toxic Chemicals, Section 313
- Sec 302 - Extremely Hazardous Substances (EHS)
- RQ - Reportable Quantity of EHS
- TPQ - Threshold Planning Quantity of EHS

CALIFORNIA PROPOSITION 65 WARNING

Chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm may be found in this product. We are advising that one or more of the listed chemicals may be present in some detectable quantities. Read and follow directions and use care when handling this product.

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