



MATERIAL SAFETY DATA SHEET

SECTION I - SUPPLIER INFORMATION

Product Name: Pitt Penn Premium Premix Antifreeze
Product Number: 801261 & 801275
Bulk Stock Number: 028255
Synonyms: Ethylene Glycol, Ethylene Glycol Solution

Supplier's Name & Address: Pitt Penn Oil Co.
426 Freeport Road
P.O. Box 296
Creighton, PA 15030
(724) 226-2712

Emergency Phone: Chem Tel, Inc. 1-800-255-3924 (24 hours)

Date Prepared: April 17, 2000

SECTION II - HAZARDOUS INGREDIENT INFORMATION

<u>Chemical or Common Name</u>	<u>CAS NO.</u>	<u>Exposure Limit</u>	<u>Range - %</u>
*1,2-ethanediol (Ethylene Glycol)	107-21-1	50 ppm Ceiling-ACGIH	47.0 - 48.0
Water	7732-18-5	N/A	1.2 - 1.5
Sodium Metasilicate	6834-92-0	N/A	0.05 - 0.1
Phosphates	Various	N/A	0.1 - 0.25
Borax/5 Mol.	12179-04-3	1.0 mg/m ³	0.1 - 0.25
Sodium Nitrate	7631-99-44	N/A	0.1 - 0.25
Silicate Stabilizer	Proprietary	N/A	0.25 - 0.1
Sodium Hydroxide	1310-73-2	2mg/m ³	0.25 - 0.5
Potash	1310-58-3	2.0 mg/m ³	0.1 - 0.25
Sodium Tolytriazole	Proprietary	N/A	0.025 - 0.1
Dye	N/A	N/A	0.0025

*Hazardous according to OSHA (1910.1200) or one or more state Right-to-Know list.

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SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Specific Gravity at 60 ° C:	1.090 (H ² O=1)
Boiling Point:	106° C (225 ° F)
Solubility in Water (by weight %):	Soluble
Volatile (by volume):	Nil
Evaporation Rate:	Not determined
Vapor Pressure (mm Hg @ 20 ° C):	Not determined
Vapor Density (air=1):	Not determined
p.H. (Neat):	10 - 11
Viscosity SUS @ 100 ° F:	Not applicable

SECTION IV - FIRE AND EXPLOSION DATA

Special Fire Fighting Procedures: According to the National Fire Protection Association Guide, use water spray, dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Use water spray to disperse the vapors and to provide protection for person attempting to stop the leak.

Unusual or Explosive Hazards: None

Ignition Temperature: >413 ° C (775 ° F)

Flashpoint (Method): >128 ° C (262 ° F) (COC)

Flammable limits %: Not established

Products evolved when subjected to heat or combustion: Carbon Monoxide and Carbon Dioxide may be formed on burning in limited air supply.

SECTION V - REACTIVITY DATA

Hazardous Polymerization: Do not occur

The material reacts violently with: Strong oxidizers

Conditions to avoid: High temperatures above 413 ° C (775 ° F) (product can decompose)

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide

SECTION VI - HEALTH HAZARD DATA/FIRST AID

Effects of Exposure

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Acute:

Eyes:	Believed to cause slight eye irritation
Skin:	Believed to be slightly irritating upon prolonged contact
Respiratory System:	Drowsiness, narcosis, and unconsciousness possible upon exposure to high concentrations in poorly ventilated confined spaces.
Chronic:	Liver and kidney damage in a 2 year rat feeding study using 1-2% Ethylene Glycol. Oral administration of very high doses of Ethylene Glycol produced birth defects in laboratory animals.

Sensitization Properties

Skin:	Unknown
Respiratory:	Unknown

First Aid:

Eyes:	Immediately flush with large quantities of water for at least 15 minutes and call a physician.
Skin Contact:	Remove excess with cloth or paper towel. Wash thoroughly with soap and water. If irritation persists, get medical attention.
Inhalation:	Remove to fresh air. Restore and/or support breathing as required. Keep victim warm and at rest.
Swallowed:	Immediately contact a physician, poison control center or emergency treatment center. Do Not Induce Vomiting!

SECTION VII - PRECAUTIONS FOR SAFE HANDLING

Precautions: Harmful or fatal if swallowed
Keep out of reach of children
May cause irritation to eyes
Do not drink antifreeze or solution
Avoid contact with eyes
Wash thoroughly after handling
Do not store in open or unlabeled containers

ETHYLENE GLYCOL BASE - Ethylene Glycol has produced birth defects in rodents. Do not store near food

Precautions to be taken in handling and storage: Minimum feasible handling temperature should be maintained. Periods of exposure to high temperature should be minimized. Water contamination should be avoided.

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SECTION VIII - SPECIAL PROTECTION AND CONTROL MEASURES

Eye Protection: Chemical type goggles or face shield optional

Skin Protection: Exposed employees should exercise reasonable personal cleanliness; this includes cleansing exposed skin areas several times daily with soap and water, and laundering or dry cleaning soiled work clothing at least weekly

Irritation: Supplied air respiratory protection for cleaning large spills or upon entry into tanks, vessels, or other confined spaces.

Ventilation: Normal to maintain exposure below TLV

Permissible Concentrations in Air: 10 mg/cubic meter for particulate mist; 50 ppm (125 mg/cubic meter) ceiling limit for Ethylene Glycol (ACGIH 1984-1985)

SECTION IX - HANDLING OF SPILLS AND LEAKS

Procedure for Clean Up: Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Emergency telephone number - Chem Tel, Inc. - 1-800-255-3924

Waste Disposal: Under RCRA, it is the responsibility of the user of products to determine, at the time of disposal, whether product meets RCRA criteria for hazardous waste. This is because product uses transformations, mixture, processes, etc., may render the resulting material hazardous (See waste classification)

Waste Classification: Dispose of waste in accordance with Federal, State and Local laws.

SECTION X - TOXICOLOGICAL/ECOLOGICAL INFORMATION

Median Lethal Dose (LD50 LC50 x Species)

Oral: Believed to be 4.7 - 8.5 g/kg (rat); moderately toxic

Inhalation: Not determined

Dermal: Believed to be 1 - 3 g/kg (rabbit); slightly toxic

Other: Not determined

Irritation Index/Estimation of Irritation (Species)

Skin: Believed to be 0.5 - 1.8/8.0 (rabbit); slightly irritating

Eyes: Believed to be 15-25/110 (rabbit); slightly irritating

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SECTION XI - TRANSPORTATION DATA

SARA 313 Information:	Contains following substance which is listed in Title III: Ethylene Glycol
SARA Hazard Category:	An immediate health hazard A delayed health hazard
DOT Proper Shipping Name:	Not applicable
DOT Hazard Class:	Not applicable

SECTION XII - REGULATORY INFORMATION

All components listed on TSCA inventory.

SECTION XIII - USER INFORMATION

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation, and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable Federal, State and Local laws and regulations.

Relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading, this information relates to the material designated and may not be valid for such material used in combination with any other materials or in any process.

