

RV/MARINE ANTIFREEZE



SAFETY
DATA
SHEET

Prediluted, Inhibited Propylene, Glycol Based Fluid

Emergency Contact Number: 1-800-424-9300 (Chemtrec)

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product/Chemical Name:	RV/Marine Antifreeze
Product Description:	Propylene glycol based antifreeze
Chemical Name:	Inhibited propylene glycol, aqueous solution
Chemical Family:	Mixture
Formula:	Mixture
Synonyms:	Antifreeze/Coolant
DOT Identification No.:	Not regulated
DOT Shipping name:	Not regulated
CAS Registry:	Mixture
Manufacturer:	Products Plus Inc 5225 North 23rd Ozark, MO 6572 Ph: 877-581-3755 info@ppicoolant.com

SECTION 2 - HEALTH HAZARD DATA

Emergency and First Aid Procedures:	Eye contact:	Flush eyes with large amounts of water for 15 minutes. If irritation persists, get medical attention.
	Skin contact:	Wash off in flowing water or shower. Wash contaminated clothing before reuse.
	Inhalation:	Remove to fresh air. If breathing has stopped, start artificial respiration. Seek medical attention.
	Ingestion:	DO NOT induce vomiting immediately and seek medical attention. Never give anything by mouth to an unconscious person.

Note to Physicians:
Treat symptomatically. No specific antidote. Supportive care. Treatment based on judgment of physician in response to reactions of the patient.

Special/Procedures: None known

SECTION 3 - HAZARDOUS IDENTIFICATION 0 = minimal 1= slight 2=moderate 3= serious 4= severe

Health: 0 Flammability: 1 Reactivity: 0 Special: 0

Route(s) of Entry

Inhalation: A single prolonged (hours) inhalation exposure is not likely to cause adverse effects. Mists in high concentrations may cause irritation of nose and throat, cause headache, nausea or drowsiness.

Skin: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. Repeated exposure may cause slight flaking, tenderness and softening of skin.

Ingestion: Single dose oral toxicity is low. If more than several mouthfuls are swallowed, abdominal discomfort, nausea or diarrhea may occur.

Eyes: May cause minor irritation of eyes in some individuals. Corneal injury is unlikely.

Target Organs: None known

Effects of overexposure:

Repeated excessive ingestion may cause central nervous system effects. No carcinogenic effects have been seen in long-term animal studies. Birth defects are unlikely. Exposures having no adverse effects on the mother should have no effect on the fetus. In animal studies, has been shown not to interfere with reproduction. Results of mutagenicity tests in vitro (test tube) and in animals have been negative.

Signs and Symptoms of Exposure:

Redness and/or stinging sensation in eyes or on skin. Minor eye or skin irritation may occur with some people.

Medical Conditions

Generally Aggravated

by Long-Term Exposure: None expected.

Chronic Effects: None known

Carcinogenicity

NTP: None known
IARC Monographs: None known
OSHA Regulations: None known
ACGIH: None known

SECTION 4 -FIRST AID MEASURES

Emergency and First Aid Procedures:

Eye contact: Flush eyes with large amounts of water for 15 minutes. If irritation persists, get medical attention.

Skin contact: Wash off in flowing water or shower. Wash contaminated clothing before reuse.

Ingestion: DO NOT induce vomiting immediately and seek medical attention. Never give anything by mouth to an unconscious person.

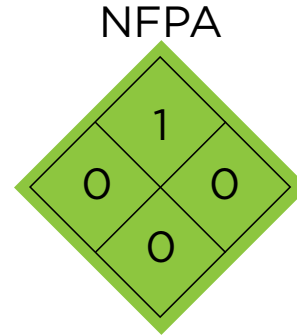
Inhalation: Remove to fresh air. If breathing has stopped, start artificial respiration. Seek medical attention.

Note to Physicians: Treat symptomatically. No specific antidote. Supportive care. Treatment based on judgment of physician in response to reactions of the patient.

Special Precautions/Procedures: None known

SECTION 5 - FIRE-FIGHTING MEASURES

Flash Point:	None
Flash Point Method:	Not applicable
Burning Rate:	Not available
Autoignition Temperature:	Not available
Flammable limits in air (% by volume)	
LEL:	Not available
UEL:	Not available



Extinguishing Media:

Water, fog, foam, CO₂, dry chemical. Alcohol resistant foams (ATC type) are best when available. Do not use direct water stream as it may spread the fire.

Unusual Fire or Explosion Hazards:

Closed containers may rupture or explode due to steam pressure build-up when exposed to extreme heat. Water may be used to cool closed containers. Do not use a direct water stream on fire. Container may rupture from gas generation in a fire situation.

Fire-Fighting Instructions; Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Full protective equipment including positive-pressure, self-contained breathing apparatus. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Seek medical attention.

Unusual Fire Fighting procedures: Keep people out of the area and isolate fire. Burning liquids may be moved by flushing with water. Do not use a direct water stream as it may spread fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures:	Recover usable material by convenient method; residual may be removed by wipe or wet mop.
Small Spills:	Small spills should be absorbed with a suitable inert material (sand, earth, clay, etc.). Remove the absorbed material and place in an appropriate chemical waste container for disposal.
Large Spills:	Large spills should be diked and pumped.
Containment:	For large spills, dike far ahead of liquid spill for later disposal.
Regulatory Requirements:	Follow applicable OSHA regulations (29 CFR 1910.120).

SECTION 7 - HANDLING AND STORAGE

Handling Precautions	Wear impermeable gloves and other protective clothing to avoid prolonged or repeated skin contact. When handling, wear eye protection.
Storage Requirements:	Keep containers tightly closed when not in use. Store only in containers resistant to alkaline solutions with a pH of 9.0-12.0.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:	Propylene Glycol: AIHA WEEL is 50 ppm total, 10mg/m ³ aerosol only. 10mg/m ³ for Propylene Glycol mist, 400ppm for Propylene Glycol vapors.
Ventilation:	Provide general or local exhaust ventilation systems.
Administrative Controls	
Respiratory Protection:	If personal exposure cannot be controlled below applicable exposure limits by ventilation, wear respiratory devices approved by NIOSH/MSHA, for protection against organic vapors, dust, fumes and mists.
Protective Clothing/Equipment:	Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles.
Work and Hygienic Practices:	Wash or rinse hands before touching eyes or contact lenses, and before eating.
Safety Stations:	Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
Contaminated Equipment:	Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.
Comments:	Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9 -PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odor:	Clear, colorless, liquid, mild odor
Boiling Point (760 mm Hg):	216-225°F (dilution dependent)
Specific Gravity (water =1):	1.010-1.030 (dilution dependent)
Vapor Density (air =1):	2.60-2.63 (dilution dependent)
Solubility in Water (% by wt):	Complete
pH:	9.5-10.8

SECTION 10 -STABILITY AND REACTIVITY

Stability:	Stable
Polymerization:	Hazardous polymerization cannot occur.
Chemical Incompatibilities:	Oxidizing materials, strong acids
Conditions to Avoid:	Avoid contact with strong acids and strong oxidizers.
Hazardous decomposition products:	Depends upon temperature, air supply and the presence of other materials.

SECTION 11 -TOXICOLOGICAL INFORMATION

Eye Effects:	Irritating to eyes
Skin Effects:	The LD50 for skin absorption in rabbits is >10,000 mg/kg.
Acute Inhalation Effects:	Significant vapors are only generated at elevated temperatures; may irritate nose and respiratory system.
Acute Oral Effects:	The oral LD50 for rats is 20,000-34,000 mg/kg
Chronic Effects:	None known
Carcinogenicity:	None known
Mutagenicity:	Not mutagenic
Teratogenicity:	Not Teratogenic

SECTION 12 -ECOLOGICAL INFORMATION

Ecotoxicity:	Based primarily on data for the major components, product is practically non-toxic to aquatic organisms.
Environmental Fate:	Decomposes to carbon, oxygen, nitrogen and water.
Environmental Degradation:	Biodegradable
Soil Absorption/Mobility:	Not determined

SECTION 13 -DISPOSAL CONSIDERATIONS

Waste disposal method:	Sanitary landfill or incinerate in approved facilities in accordance with local, state and federal regulations. Do not dump into any sewers, on the ground or into any body of water.
Disposal Regulatory Requirements:	This product, if unused, does not meet the RCRA criteria for being identified as a hazardous waste by characteristics.
Container Cleaning and Disposal:	Containers should be cleaned of residual product before disposal, and disposed of in accordance with all applicable laws and regulations.

SECTION 14 -TRANSPORT INFORMATION

DOT Shipping Name:	Not regulated	Quantity Limitations	
Shipping Symbols:	Not applicable	a) Passenger, Aircraft, or Railcar:	Not applicable
Hazard Class:	Not applicable	b) Cargo Aircraft Only:	Not applicable
DOT Identification No.:	Not regulated	Vessel Stowage Requirements	
Packing Group:	Not applicable	a) Vessel Stowage:	Not applicable
Label:	Not applicable	b) Other:	Not applicable
Special Provisions (172.102):	Not applicable		
Packaging Authorizations			
a) Exceptions:	Not applicable		
b) Non-bulk Packaging:	Not applicable		
c) Bulk Packaging:	Not applicable		

SECTION 15 -REGULATORY INFORMATION

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 the effective date shown above. However, no warranty, expressed 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. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

EPA Regulations

RCRA Hazardous Waste Number and RCRA
Hazardous Waste Classification: Not applicable

CERCLA Hazardous Substance and CERCLA
Reportable Quantity: Not applicable

SARA 313: 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 not to have met any hazard category.

OSHA Regulations: This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

WHMIS: Not a "Controlled Product" under WHMIS
(The Canadian Workplace Hazardous Materials Information System)

SECTION 16 -OTHER INFORMATION

Additional Hazard Rating Systems: None

Disclaimer: *THE INFORMATION GIVEN HEREIN IS GIVEN IN GOOD FAITH AND FROM SOURCES WE BELIEVE RELIABLE. BUT NO WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS IS MADE.* The conditions or methods of handling, storage, use and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not apply.

CONSULT COMPANY LISTED IN SECTION 1 FOR FURTHER INFORMATION.



PRODUCTS PLUS
I N C O R P O R A T E D

ANTIFREEZE | WINDSHIELD WASH | HEAT TRANSFER FLUIDS

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