

SAFETY DATA SHEET

Version: CLR-APR 17-2018

SECTION 1

COMPANY IDENTIFICATION CHEMICAL PRODUCT

Company Name: AR North America
Contact Address: 140 81st Avenue Northeast
Fridley, MN 55432.
Phone/Fax: 763-398-2008 / 763-398-2009
Trade Name: Pump Saver
Chemical Name: Synthetic Propylene Glycol Hydrocarbon Mixture
Chemical Family: Synthetic Propylene Glycol Hydrocarbon Mixture
Formule: Proprietary
CAS#: 57-55-6 (For Basid Material)
Applications: Used as a heat transfer fluid for solar water system
Information: 763-398-2008
Emergence: 911

SECTION 2

COMPOSITION/INFORMATION ON INGREDIENTS

General This product is Non-hazardous. The products contains no known carcinogens. No special warning label are required under OSHA 29 CFR 1910.1200.

SECTION 3

HAZARDS IDENTIFICATION

Appearance: Clear liquid, slight pink.
Knows Hazards: This product does not required any special warning labels under OSHA 29 CFR 1910.1200 and contains no known hazardous ingredients.

SECTION 4

FIRST AIDS MEASURES

Eyes: Flush with clean, lukewarm water occasionally lifting eyelids. Physician assessment if eyes are inflamed.
Skin: Wash affected areas thoroughly with soap and water. Wash contaminated clothing before reuse.
Inhalation: Avoid breathing oil mists. Remove to fresh air. Give artificial respiration if not breathing. Oxygen may be given by qualified personnel if breathing is difficult. Get medical attention.
Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Has laxative effect. Get medical aid.
Notes to Physician: Persons with impaired kidney function may be more susceptible to the effects of this substance. Treat symptomatically and supportively.

SECTION 5

FIRE FIGHTING MEASURES

General:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Do not point solid water stream directly into burning fluid to avoid spreading.
Flammability:	Not applicable to liquid.
Fire & Explosion Hazards:	LOW FIRE HAZARD-Do not cut, drill, or weld empty containers.
Extinguishing Media:	Water fog or fine spray. Do not use direct water stream which may spread fire. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.
NFPA Rating (est.):	Health: 0; Flammability: 1; Instability:0

SECTION 6

ACCIDENTAL RELEASE MEASURES

General:	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:	Absorb spill with inert material (e.g. vermiculite, sand or earth), the place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

SECTION 7

HANDLING AND STORAGE

Storage Temp:	None(min)/40°C(max)
Handling:	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.
Storage:	Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.
Precautions:	Not for internal use. Avoid contact with skin, eyes, and clothing.

SECTION 8

EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
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Exposure Limits:

Chemical Name	ACGIH	NIOSH	OSHA	Final PELs
Propylene glyco1	None listed	None listed	None listed	

Eyes Protection:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection.
Skin Protection:	Wear appropriate protective gloves to prevent skin exposure.
Respirators:	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Physical:	State Liquid
Colour:	Pinky
Odor:	Odorless
PH:	7.5-11
Vapor Pressure:	93.54kpa (20°C)
Vapor Density:	No data
Evaporation Rate:	0.993
Viscosity:	7.0 mm ² /s (20°C)
Viscosity:	1.35 mm ² /s (80°C)
Boiling Point:	106°C
Freezing:	-35°C
Solubility:	Soluble in water
Specific Gravity:	1.115 g/cm ³
Flammable Limits:	N/A
Combustion Heat:	No data
Flash Point:	153.5°C
Ignition Temp:	159.5°C
Auto-ignition Temp:	371°C
Lower Explosion Limits:	2.5 vol %
Upper Explosion Limits:	12.6 vol %

SECTION 10

STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures. Hygroscopic absorbs moisture or water from the air.
Conditions to Avoid Excess:	Heat, moist air
Incompatibilities:	Strong oxidizers
Decomposition Products:	Carbon monoxide, Carbon dioxide, Aldehydes
Hazardous:	Polymerization will not occur

SECTION 11

TOXICOLOGICAL INFORMATION

General Draize test, Rabbit:	Eye: 100 mg Mild; 500 mg/24H Mild
Oral, mouse:	LD50=22 gm/kg; rabbit: LD50=18500 mg/kg
Rat:	LD50=20 gm/kg;
Skin, rabbit:	LD50=20800 mg/kg.
Irritant:	Slight irritant to eye, skin and respiratory organs
Carcinogenicity:	Negative when tested by modified Ames Test
Not Listed:	By ACGIH, IARC, NIOSH, NTP, or OSHA
Teratogenicity:	Exposure are negligible
Epidemiology:	No information available
Neurotoxicity:	No information available
Reproductive:	Effects when given at 30 percent in the diet, it affected reproduction rates in rats. It was generally not affected fertility or reproduction, except at very high doses where effects could be attributed to nutritional deficiency.

SECTION 12**ECOLOGICAL INFORMATION**

General: Expected to degrade relatively rapidly via biodegradation. If released to soil, relatively rapid biodegradation should also occur. Significant leaching in soil can be predicted.

SECTION 13**DISPOSAL CONSIDERATIONS**

Waste: Disposal used product must be disposed of in accordance with Local environmental control regulations. Incineration is preferred.

General: As in any fire, wear a self-contained breathing apparatus in.

RCRA P-Series: None listed

RCRA U-Series: None listed

SECTION 14**TRANSPORT INFORMATION**

Technical Name Synthetic Propylene glycol hydrocarbon mixture

D.O.T. Hazard Class Not Required

U.N./N.A. # Not Regulated

SECTION 15**REGULATORY INFORMATION**

Clean Air Act This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.