

Safety Data Sheet

85.490.04X - PUMP SAVER

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Synthetic Propylene Glycol Hydrocarbon Mixture

Synonyms/Generic Names: Synthetic Propylene Glycol Hydrocarbon Mixture

Product Number: 85.490.04X

Product Use: Used as a heat transfer fluid for solar water system

Manufacturer: Suzhou Clear Water Treatment Co. Ltd.

For More Information Call: +86 0512 65475565

In Case of Emergency Call: +86 0512 65475565

2. HAZARDS IDENTIFICATION

OSHA Hazards: Non-hazardous, does not require any special warning labels under OSHA 29 CFR 1910.1200

Target Organs: None

Signal Words: None

Pictograms: None

GHS Classification:

Skin Irritation	Category 3
Eye irritation	Category 2B

GHS Label Elements, including precautionary statements:

Hazard Statements:

Precautionary Statements:

P102, P262, P280, P305, P313,	Keep away from children. Avoid contact with eyes and skin. Wear protective gloves and goggles. In case of contact with eyes, flush with water. If ingested, seek medical attention.
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Potential Health Effects

Eyes	May cause irritation
Inhalation	May be harmful if inhaled
Skin	May cause irritation
Ingestion	May have laxative effect

NFPA Ratings

Health Hazard	0
Flammability	1
Reactivity Hazard	0
Specific Hazard	N/A

HMIS Ratings

Health	
Fire	
Reactivity	
Personal	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Propylene glycol		57-55-6			

4. FIRST-AID MEASURES

Eyes	Flush with clean, lukewarm water occasionally lifting eyelids. Seek medical attention if inflamed
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.
Skin	Wash affected areas thoroughly with soap and water. Wash contaminated clothing before reuse.
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.
Physician Note	Persons with impaired kidney function may be more susceptible to the effects of this substance. Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES

Suitable (and unsuitable) Extinguishing Media	Water fog/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 work
Special Protective Equipment and Precautions for Firefighters	Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Fire and explosion hazards	LOW FIRE HAZARD-Do not cut, drill, or weld empty containers.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Use proper personal protective equipment as indicated in Section 8
Environmental Precautions	
Methods and Materials for Containment and Cleaning Up	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.

7. HANDLING AND STORAGE**Precautions for Safe 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.

Conditions for Safe Storage, Including Any Incompatibilities

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances stated in section 10. Store protected from moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls:

Component	Exposure Limits	Basis	Entity
Propylene glycol	None		

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.

Eyes	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA
Respirators	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.
Skin	Wear appropriate protective gloves to prevent skin exposure.
Other	

Other Recommendations

None

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical	State liquid
Colour	Pinky
Odor	Odorless
PH	7.5-11
Vapor Pressure	93.54kpa (20°C)
Vapor Density	
Evaporation Rate	0.993
Viscosity	7.0 mm ² /s (20°C), 1.35 mm ² /s (80°C)
Flash Point	153.5°C
Boiling Point	106°C
Freezing	-35°C
Solubility	Water soluble
Specific Gravity	1.115 g/cm ³
Flammable Limits	
Combustion Heat	
Ignition Temp	159.5°C
Lower/Upper Explosion Limits	2.5 vol %, 12.6 vol %

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Eyes	General Draize test, rabbit - 100 mg Mild; 500 mg/24H Mild
Ingestion	Oral, mouse - LD50=22 gm/kg; rabbit - LD50=18500 mg/kg
Skin	Rabbit - LD50=20800 mg/kg
Respiratory	Irritant - slight irritant to respiratory organs
Others	Carcinogenicity: negative when tested by modified Ames Test Teratogenicity: Exposure is negligible Epidemiology: Not available Neurotoxicity: Not 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.

Carcinogenicity

IARC	Not listed
ACGIH	Not listed
NTP	Not listed
OSHA	Not listed

Signs & Symptoms of Exposure

Skin	Mild irritation
Eyes	Mild irritation
Respiratory	Mild irritation
Ingestion	Has laxative effect
Chronic Toxicity	
Teratogenicity	Exposure is negligible
Mutagenicity	
Embryotoxicity	
Specific Target Organ Toxicity	
Reproductive Toxicity	Generally does not affect fertility or reproduction, see Acute Toxicity section above
Respiratory/Skin Sensitization	

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate	
Aquatic Invertebrate	
Terrestrial	

Persistence and Degradability	Expected to degrade relatively rapidly via biodegradation.
Bioaccumulative Potential	
Mobility in Soil	Relatively rapid biodegradation, significant leaching in soil can be predicted.
PBT and vPvB Assessment	
Other Adverse Effects	

13. DISPOSAL CONSIDERATIONS

WASTE	Disposal used product must be disposed of in accordance with local environmental control regulations. Incineration is preferred. As in any fire, wear a self-contained breathing apparatus.
RCRA P-Series RCRA U-Series	None listed

14. TRANSPORT INFORMATION

US DOT	Hazard Class Not Required
TDG	Not dangerous
IDMG	Not dangerous
Marine Pollutant	Not dangerous
IATA/ICAO	Not dangerous

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

15. REGULATORY INFORMATION

TSCA Inventory Status	
DSCL (EEC)	
California Proposition 65	
SARA 302	
SARA 304	
SARA 311	
SARA 312	
SARA 313	
WHMIS Canada	

16. OTHER INFORMATION

Clean Air Act	No hazardous air pollutants
Class 1 Ozone Depletor	None
Class 2 Ozone Depletor	None