



NFPA	GHS Pictogram	Personal Protective Equipment
	NONE	

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	Product form	Product code
Rhomar PG™ ULTRA	Mixture	R-PG-U

1.2. Relevant identified uses of the substance or mixture and uses advised against
Industrial chemical. Heat transfer fluid and antifreeze.

1.3. Details of the supplier of the safety data sheet

Rhomar HTF LLC, dba Rhomar Water
2103 E. Rockhurst St., Springfield, MO 65802 USA
Telephone: 417-862-2600; Fax: 417-862-6410
Email: TalkToUs@RhomarWater.com; Website: www.RhomarWater.com

1.4. Emergency telephone number
CHEM TEL: 1-800-255-3924

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:

Not a hazardous substance or mixture.

GHS Label Element:

Not a hazardous substance or mixture.

Potential Health Effects:

Skin contact : Repeated contact may cause skin dryness and cracking

Eye contact : May cause slight eye irritation.

Inhalation : Not likely at room temperature due to low volatility. At elevated temperatures, vapors may cause irritation to the upper respiratory tract.

Ingestion : May cause gastrointestinal irritation if swallowed.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
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Substance	CAS #	Amount, %
Propylene glycol; propane-1,2-diol	57-55-6	>99.5

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice: If there exists a significant potential for exposure, refer to **Section 8** for personal protective equipment

Eye contact : Immediately flush thoroughly with plenty of water for 15 minutes

Skin contact : Wash off with soap and plenty of water. Rinse thoroughly with water. Remove and wash contaminated clothing before reuse.

Inhalation : Move to fresh air. If symptoms persist, call a physician

Ingestion : Clean mouth with water. Drink plenty of water afterwards. Do not induce vomiting. Consult physician

4.2. Indication of any immediate medical attention and special treatment needed

Note to Physician: Contains propylene glycol. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

NFPA

Flammability 0

Health 1



Stability and reactivity 0

Physical hazard -

- 5.1. Suitable extinguishing media:** Non-combustible. Use alcohol-resistant foam or dry carbon dioxide or media compatible with surrounding fire.
- 5.2. Unsuitable extinguishing media:** Do not use direct water stream as it may aggravate the spread of the fire thus posing a fire hazard.
- 5.3. Special hazards arising from the substance or mixture:** Thermal decomposition may result in smoke which may contain harmful combustion products such as carbon monoxide and carbon dioxide among others
- 5.4. Advise for firefighters:** Wear self-contained breathing apparatus, NIOSH/MSHA (approved or equivalent) and full protective gear for firefighting if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation. Avoid breathing vapors or mist. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION for more information.
- 6.2. Environmental precautions:** Do not let the product enter sewers, waterways, into soil and groundwater systems. Prevent further leakage if safe to do so. See Section 12, ECOLOGICAL INFORMATION for additional information.
- 6.3. Methods and material for containment and cleaning:** Dam up the area of accidental release to contain large spills. Mechanically collect spillage in suitable containers for disposal. For small spills, adsorb with sawdust or any inert adsorbent material. For additional information, see Section 13, DISPOSAL CONSIDERATIONS.

SECTION 7: HANDLING AND STORAGE

- 7.1. Precautions for safe handling:** No special precautions needed when handling the product. See Section 8, EXPOSURE CONTROLS/PERSONAL PROTECTION.
- 7.2. Conditions for safe storage, including any incompatibilities:** Store in original container. Keep storage container tightly closed in a well ventilated place. See Section 10, STABILITY AND REACTIVITY for more specific information.
- 7.3. Specific end use(s):** Apart from the uses mentioned in Section 1.2, no other specific uses are prescribed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

This product is known to contain the following materials with established 8-hour total weight average (TWA) permissible exposure limits:

Chemical Name	Type of listing	Regulation	Value
Propylene glycol	TWA	OHSA - WEEL	10 mg/m ³

8.1. Exposure controls

Eye/face protection : Wear goggles or safety glasses with side shields.

Skin/body protection : Use gloves chemically resistant to this product such as those made from butyl or nitrile rubber when prolonged contact with material could occur.

Respiratory protection : Wear suitable personal respiratory protection and protective suit in case of mist, aerosol or spray exposure.

8.2. Engineering controls : Adequate ventilation should be ensured.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Lightly viscous liquid	Specific Gravity (H₂O=1)	1.02 g/cm ³ (at 20 °C)
Appearance	Clear	Evaporation Rate (Water =1)	1
Odor	Odorless	Vapor Pressure (mm Hg)	No data available
pH (as is)	6.5 – 7.5	Vapor Density (Air = 1)	No data available
Boiling Point	~188 °C (~371 °F)	Partition Coefficient	No data available
Freezing Point	Supercools	Water Solubility	Miscible, 100% <i>Literature</i>
Decomposition temperature	No data available	Flammability Limits (solid, gas)	Not applicable to liquids
Oxidizing properties	No data available	Autoignition Temperature	No data available
Flash Point	No data available	Flammability/explosive limit	No data available
Molecular Weight	No data available	Explosive properties	No data available

9.2. Other information : None available®

SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity** : No data available
- 10.2. **Chemical stability** : Stable under recommended storage conditions
- 10.3. **Possibility of hazardous reactions**: Polymerization will not occur
- 10.4. **Conditions to avoid** : Exposing this product to elevated temperatures can cause it to decompose generating gases which can cause pressure buildup in closed systems.
- 10.5. **Incompatible materials** : Avoid contact with strong oxidizers, strong acids, strong bases
- 10.6. **Hazardous decomposition products**: None

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Chemical name	Exposure route	Test specimen	Lethal Dose (LD ₅₀)	Reference
Propylene glycol	Oral	Rat	8000-46000 mg/Kg	Literature
		Mouse	23000-24900 mg/Kg	
		Guinea pig	18000-20000 mg/Kg	

Chronic effects:

Carcinogenicity : No ingredient of this product in levels $\geq 0.1\%$ is identified and listed by OSHA, ACGIH, NTP, IARC or Mexico as a known or suspected carcinogen

Mutagenic, reproductive, developmental, target organ or neurological effects : No information available.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1. **Toxicity** : No test data available
- 12.2. **Persistence and degradability**: This product is readily biodegradable
- 12.3. **Bioaccumulative potential** : No data available
- 12.4. **Mobility in soil** : Mobility potential of product in soil is very high due to its 100 % miscibility with water
- 12.5. **Other adverse effects** : None known

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 **Unused/uncontaminated product** : Contact a licensed: Recycler. Reclaimer. Incinerator.
- 13.2 **Waste disposal methods** : Whenever possible, minimize waste. Waste should be disposed of in accordance with all laws and regulations pertaining to this product in your area of jurisdiction.
- 13.3 **Contaminated packaging** : Decontaminate empty containers. Treat decontamination fluid as waste and dispose as above. You may take the containers for local recycling.

NOTE: Do not dump into any sewers, on the ground, or into any water body. All disposal practices must be in compliance with all federal, state/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are solely the responsibility of the waste generator.

SECTION 14: TRANSPORT INFORMATION

International Transport regulations: This product is not covered by the international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID)

Domestic Transport regulations : **DOT (USA)** - Not regulated; **TDG (Canada)** - Not regulated; **MEX (Mexico)** - Not regulated

NOTE: This information is not intended to convey all specific regulatory or operational requirements relating to the transportation of this product. Additional transportation information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of this material.

SECTION 15: REGULATORY INFORMATION

15.1. US Federal regulations

SARA 313: This product is not known to contain any chemicals at levels subject to the reporting requirements of SARA (1986) Title III, Sections 313

SARA 311/312: Acute health hazard: No
Chronic health hazard: No

SARA 302: This product is not known to contain any chemicals subject to the reporting requirements of SARA (1986) Title III, Sections 302 or Section 304.

15.2. US State regulations

Pennsylvania Worker and Community-Right-To-Know Act (Act 159 of 1984): Propylene glycol (CAS RN 57-55-6) is listed because of the additional requirements of the Pennsylvania Law

Proposition 65: This product does not contain chemicals listed in the State of California as carcinogens, reproductive toxins at levels requiring a warning under this statute

15.3. Worldwide Chemical Inventory Status :

All the ingredients in this product are listed in USA's TCSA, and Canada's DSL inventories

SECTION 16: OTHER INFORMATION

Prepared by	Preparation date	Revision date	Revision number
Rhomar HTF LLC, dba Rhomar Water	02/19/2013	02/27/2017	3

LEGEND:

CAS : Chemical Abstracts Service	CFR : Code of Federal Regulations
TWA : Time Weighted Average	DOT : Department of Transport
IMDG : International Maritime Dangerous Goods	IATA : International Air Transport Association
WEEL : Workplace Environmental Exposure Limit	TDG : Transport of Dangerous Goods
NTP : National Toxicity Program	DSL : Domestic Substances List
SARA : Superfund Amendments and Reauthorization Act	OHSA : Occupational Health and Safety Act
OSHA : Occupational Safety and Health Administration	TCSA : Toxic Substances Control Act
IARC : International Agency for Research on Cancer	MSHA : Mine Safety and Health Administration
NIOSH : National Institute for Occupational Safety and Health	ADR & RID: European Agreements Concerning International Carriage of Dangerous Goods by Rail and by Road
ACGIH : American Conference of Government Industrial Hygienists	

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