

# Safety Data Sheet

PROFROST 100 STANDARD SERIES

SDS Revision Date: 12/12/2022



## 1. Identification

### 1.1. Product identifier

**Product Identity**

PROFROST 100 STANDARD SERIES

**Alternate Names**

35-715, Profrost 100 Standard Series, Propylene Glycol 100% Solution Ratio, Chiller, Anti-Freeze, Heat Transfer Fluid, with No color, No inhibitor- 55 gallon

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use**

It can be used near food, but not in direct contact. Pre-mixed formulas take the guesswork out of diluting for specific applications.

**Application Method**

Read all precautions and instructions carefully before and after use.

### 1.3. Details of the supplier of the safety data sheet

**Company Name**

ComStar International Inc.  
20-47 128th Street,  
College Point, NY 11356

**Telephone No.**

718-445-7900  
800-328-0142  
Fax: 718-353-5998

**Emergency 24 HR response No:** 1-800-424-9300 & 703-527-3887 CHEMTREC

Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure, or accident. Please direct all other inquiries to our customer service phone number.

## 2. Hazard(s) identification

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Label Elements

None required

### Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/information on ingredients

| Ingredient/Chemical Designations | Weight % | GHS Classification |
|----------------------------------|----------|--------------------|
| PROPYLENE GLYCOL<br>CAS#:57-55-6 | >95      | Not classified     |
| De-IONIZED WATER<br>CAS#: (N/A)  | Balance  | Not classified     |

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### 4. First aid measures

#### 4.1. Description of first aid measures

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.        |
| <b>Eyes</b>       | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. |
| <b>Skin</b>       | Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.                     |
| <b>Ingestion</b>  | Do not induce vomiting. Get medical attention immediately if symptoms occur.  |

#### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

#### Notes to Physician

Treat symptomatically

### 5. Fire-fighting measures

#### 5.1. Suitable Extinguishing media

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam

#### Unsuitable Extinguishing media

No information available

#### Flash Point

99 °C / 210

#### Method

No information

#### Autoignition Temperature

400 °C / 752 °

#### Explosion Limit

Upper 12.6 vol %

Lower 2.6 vol %

#### Sensitivity to Mechanical Impact

No information available

#### Sensitivity to Static Discharge

No information available

#### 5.2. Special hazards arising from the substance or mixture

Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors

#### 5.3. Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>)

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## Protective Equipment and Precautions for Firefighter

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## NFPA

Health  
2

Flammability  
1

Instability  
1

Physical hazards  
N/A

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation.

### 6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed

## 7. Handling and storage

### 7.1. Precautions for safe handling

Ensure adequate ventilation. Wear personal protective equipment/face protection

### 7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Incompatible Materials. Strong oxidizing agents. Acids.

## 8. Exposure controls and personal protection

### 8.1. Control parameters

#### Exposure

| CAS No. | Ingredient       | Source   | Value                |
|---------|------------------|----------|----------------------|
| 57-55-6 | PROPYLENE GLYCOL | OSHA     | 150 ppm              |
|         |                  | ACGIH    | 150 ppm              |
|         |                  | NIOSH    | No Established Limit |
|         |                  | Supplier | No Established Limit |
| N/A     | De-IONIZED WATER | OSHA     | No Established Limit |
|         |                  | ACGIH    | No Established Limit |
|         |                  | NIOSH    | No Established Limit |
|         |                  | Supplier | No Established Limit |

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## Carcinogen Data

| CAS No. | Ingredient       | Source | Value  |
|---------|------------------|--------|--|
| 57-55-6 | PROPYLENE GLYCOL | OSHA   | Select Carcinogen: No  |
|         |                  | NTP    | Known: No; Suspected: No   |
|         |                  | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |
| N/A     | De-IONIZED WATER | OSHA   | Select Carcinogen: No  |
|         |                  | NTP    | Known: No; Suspected: No   |
|         |                  | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |

## 8.2. Exposure controls

- Engineering Measures** Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
- Respiratory** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirators, if exposure limits are exceeded or if irritation or other symptoms are experienced.
- Eyes/face protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166
- Skin/body protection** Wear appropriate protective gloves and clothing to prevent skin exposure.
- Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

|   |   |
|---|---|
| <b>Appearance</b>                                   | Clear Liquid  |
| <b>Odor</b>   | Odorless  |
| <b>Odor threshold</b>                               | Not Measured  |
| <b>pH</b>   | 6.5-7.5 100g/l aq. sol  |
| <b>Melting point / freezing point</b>               | -60 °C / -76 °F   |
| <b>Initial boiling point and boiling range</b>      | 187 °C / 368.6 °F   |
| <b>Flash Point</b>                                  | 99 °C / 210.2 °F  |
| <b>Evaporation rate (Ether = 1)</b>                 | No information available  |
| <b>Flammability (solid, gas)</b>                    | Not Applicable  |
| <b>Upper/lower flammability or explosive limits</b> | <b>Lower Explosive Limit:</b> 2.6 vol%<br><b>Upper Explosive Limit:</b> 12.6 vol% |
| <b>Vapor pressure (Pa)</b>                          | 0.13 mbar @ 20 °C   |
| <b>Vapor Density</b>                                | 2.62 (Air = 1.0)  |
| <b>Specific Gravity</b>                             | 1.03-1.04   |

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|  |                   |
|--|-------------------|
| <b>Solubility in Water</b>                             | Complete          |
| <b>Partition coefficient n-octanol/water (Log Kow)</b> | Not Measured      |
| <b>Auto-ignition temperature</b>                       | 400 °C / 752 °F   |
| <b>Decomposition temperature</b>                       | Not Measured      |
| <b>Viscosity (cSt)</b>                                 | 45 mPa.s at 20 °C |
| <b>Molecular Formula</b>                               | C3 H8 O           |
| <b>Molecular Weight</b>                                | 76.10             |

## 9.2. Other information

No other relevant information.

## 10. Stability and reactivity

### 10.1. Reactivity

None known, based on information available.

### 10.2. Chemical stability

Hygroscopic.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

Incompatible products. Excess heat. Exposure to moist air or water.

### 10.5. Incompatible materials

Strong Oxidizing agents, Acids

### 10.6. Hazardous decomposition products

Hazardous polymerization does not occur.

### 10.7. Hazardous Reactions

None under normal processing.

## 11. Toxicological information

| Ingredient                 | Oral LD50,        | D LD50,            | Inhalation LC50,  |
|----------------------------|-------------------|--------------------|-------------------|
| PROPYLENE GLYCOL (57-55-6) | 20 g/kg Rat       | 20800 mg/kg Rabbit | No data available |
| De-IONIZED WATER (N/A)     | No data available | No data available  | No data available |

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

### Toxicologically Synergistic Products

No information available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

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**Irritation** No information available

**Sensitization** No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component        | CAS No  | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|------------------|---------|------------|------------|------------|------------|------------|
| Propylene glycol | 57-55-6 | Not listed | Not listed | Not listed | Not listed | Not listed |

| Classification                | Category | Hazard Description |
|-------------------------------|----------|--------------------|
| Acute toxicity (oral)         | ---      | Not Applicable     |
| Acute toxicity (dermal)       | ---      | Not Applicable     |
| Acute toxicity (inhalation)   | ---      | Not Applicable     |
| Skin corrosion/irritation     | ---      | Not Applicable     |
| Serious eye damage/irritation | ---      | Not Applicable     |
| Respiratory sensitization     | ---      | Not Applicable     |
| Skin sensitization            | ---      | Not Applicable     |
| Germ cell mutagenicity        | ---      | Not Applicable     |
| Carcinogenicity               | ---      | Not Applicable     |
| Reproductive toxicity         | ---      | Not Applicable     |
| STOT-single exposure          | ---      | Not Applicable     |
| STOT-repeated exposure        | ---      | Not Applicable     |
| Aspiration hazard             | ---      | Not Applicable     |
|                               |          |                    |

## 12. Ecological information

### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

#### Aquatic Ecotoxicity

| Ingredient                 | Freshwater Algae  | Freshwater Fish   | Microtox  | Water Flea                                    |
|----------------------------|---|---|---|---|
| PROPYLENE GLYCOL (57-55-6) | EC50: = 19000 mg/L, 96h (Pseudokirchneriella subcapitata) | LC50: 41 - 47 mL/L, 96h static (Oncorhynchus mykiss) LC50: = 51400 mg/L, 96h static | = 710 mg/L EC50 Photobacterium phosphoreum 30 min | EC50: > 1000 mg/L, 48h Static (Daphnia magna) |

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|                        |               |  |               |               |
|------------------------|---------------|--|---------------|---------------|
|                        |               | (Pimephales promelas) LC50: = 51600 mg/L, 96h static<br>(Oncorhynchus mykiss) LC50: = 710 mg/L, 96h<br>(Pimephales promelas) |               |               |
| De-IONIZED WATER (N/A) | Not Available | Not Available  | Not Available | Not Available |

## 12.2. Persistence and degradability

Miscible with water Persistence is unlikely based on information available.

## 12.3. Bioaccumulative potential

Not Measured

## 12.4. Mobility in soil

Will likely be mobile in the environment due to its water solubility.

## 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

## 12.6. Other adverse effects

No data available.

| Component        | log Pow |
|------------------|---------|
| PROPYLENE GLYCOL | -0.9    |

## 13. Disposal considerations

### 13.1. Waste treatment methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport information

|                               | DOT (Domestic Surface Transportation) | IMO / IMDG (Ocean Transportation) | ICAO/IATA     |
|-------------------------------|---------------------------------------|-----------------------------------|---------------|
| 14.1. UN number               | Not Applicable                        | Not Regulated                     | Not Regulated |
| 14.2. UN proper shipping name | Not Regulated                         | Not Regulated                     | Not Regulated |

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**14.3. Transport hazard class(es)**      **DOT Hazard Class:** Not Applicable      **IMDG:** Not Applicable      **Air Class:** Not Applicable  
**14.4. Packing group**      Not Applicable      **Sub Class:** Not Applicable      Not Applicable

### 14.5. Environmental hazards

**IMDG**      Marine Pollutant: No

### 14.6. Special precautions for user

No further information

## 15. Regulatory information

### United States of America Inventory

| Component        | CAS No  | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|------------------|---------|------|---|-----------------------------|
| Propylene glycol | 57-55-6 | X    | Active  | --                          |

#### Legend:

**TSCA US EPA (TSCA)** - Toxic Substances Control Act, (40 CFR Part 710)

**X** - Listed

**-** - Not Listed

**TSCA 12(b)** - Notices of Export Not applicable

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component        | CAS No  | DSL | NDSL | EINECS    | PICCS | ENCS | ISHL | AICS | IECSC | KECL |
|------------------|---------|-----|------|-----------|-------|------|------|------|-------|------|
| Propylene glycol | 57-55-6 | X   | --   | 200-338-0 | X     | X    | X    | X    | X     | X    |

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

### U.S. Federal Regulation

**SARA 313**      Not applicable

**SARA 311/312 Hazard Categories**      See section 2 for more information

**CWA (Clean Water Act)**      Not applicable

**Clean Air Act**      Not applicable

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**OSHA** - Occupational Safety and Health Administration Not applicable

**CERCLA** Not applicable

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Component        | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|------------------|---------------|------------|--------------|----------|--------------|
| Propylene glycol | ---           | X          | X            | =        | X            |

**U.S. Department of Transportation**

Reportable Quantity (RQ): N  
 DOT Marine Pollutant N  
 DOT Severe Marine Pollutant N

**U.S. Department of Homeland Security** This product does not contain any DHS chemicals.

**Other International Regulations**

**Mexico** - Grade Slight risk, Grade 1

**Authorization/Restrictions according to EU REACH**

**Safety, health, and environmental regulations/legislation specific for the substance or mixture.**

| Component        | CAS No  | OECD HPV | Persistent Organic Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|------------------|---------|----------|------------------------------|---------------------------|--|
| Propylene glycol | 57-55-6 | Listed   | Not applicable               | Not applicable            | Not applicable                             |

| Component        | CAS No  | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
|------------------|---------|---|--|----------------------------|------------------------------------|
| Propylene glycol | 57-55-6 | Not applicable  | Not applicable   | Not applicable             | Not applicable                     |

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## 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The opinions expressed are those of qualified experts within ComStar International Inc. We believe that the information contained is current as of the date of the Safety Data Sheet. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of ComStar International Inc., it is the user's obligation to determine the conditions of safe use of the product.

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