



# Safety Data Sheet

**Product Name: Tec-Frost Heat Transfer Fluid Concentrate**

SDS No.: 10622216100CONC

Issue Date: 06/22/2026

Version No.: 1.1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Tec-Frost Heat transfer fluid concentrate

**Company Name & Address:** TEC-FROST 400 S 14<sup>th</sup> Ave, Eldridge, IA 52748

**For More Information Call:** 800-522-1150 (Monday-Friday 8:00-4:30)

**In Case of Emergency Call:** (800) 424-9300 Chemtrec (24 Hours/Day, 7 Days/Week)

## 2. HAZARDS IDENTIFICATION

**OSHA Hazards:** No known OSHA hazards

**Target Organs:** None

**Signal Words:** None

**Pictograms:** None

**GHS Classification:**

|                                             |  |
|---------------------------------------------|--|
| Not a hazardous substance according to GHS. |  |
|---------------------------------------------|--|

**GHS Label Elements, including precautionary statements:**

**Hazard Statements:**

|      |  |
|------|--|
| None |  |
|------|--|

**Precautionary Statements:**

|      |  |
|------|--|
| None |  |
|------|--|

### Potential Health Effects

|            |                                                                     |
|------------|---------------------------------------------------------------------|
| Eyes       | May cause irritation                                                |
| Inhalation | May be harmful if inhaled. May cause respiratory tract irritation.  |
| Skin       | May be harmful if absorbed through skin. May cause skin irritation. |
| Ingestion  | May be harmful if ingested.                                         |

### NFPA Ratings

|                 |     |
|-----------------|-----|
| Health          | 1   |
| Flammability    | 1   |
| Reactivity      | 0   |
| Specific hazard | N/A |

### HMIS Ratings

|            |   |
|------------|---|
| Health     | 1 |
| Fire       | 1 |
| Reactivity | 0 |
| Personal   | C |

0 =minimal 1= slight 2=moderate 3= serious 4= severe

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component                         | Volume % | CAS #     | EINECS# / ELINCS# | Formula                                      | Molecular Weight |
|-----------------------------------|----------|-----------|-------------------|----------------------------------------------|------------------|
| Propylene glycol, 1,2-Propanediol | ≥96      | 57-55-6   | 200-388-0         | C <sub>3</sub> H <sub>8</sub> O <sub>2</sub> | 76.10 g/mol      |
| Dipotassium Phosphate, Food Grade | <5       | 7758-11-4 | N/A               | K <sub>2</sub> HPO <sub>4</sub>              | 174.2 g/mol      |

### 4. FIRST-AID MEASURES

|                   |                                                                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eyes</b>       | Rinse with plenty of water for at least 15 minutes and seek medical attention if necessary.                                                                             |
| <b>Inhalation</b> | Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary. |
| <b>Skin</b>       | Flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary.                        |
| <b>Ingestion</b>  | <b>Do Not Induce Vomiting!</b> Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.      |

### 5. FIREFIGHTING MEASURES

|                                                                      |                                                                                                                                                        |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable (and unsuitable) extinguishing media</b>                 | Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Use appropriate media on adjacent fire. Cool unopened containers with water. |
| <b>Special protective equipment and precautions for firefighters</b> | Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.                                    |
| <b>Specific hazards arising from the chemical</b>                    | Emits toxic fumes (carbon oxides) under fire conditions. (See also Stability and Reactivity section).                                                  |

### 6. ACCIDENTAL RELEASE MEASURES

|                                                                            |                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures</b> | See section 8 for recommendations on the use of personal protective equipment.                                                                                                                                                                          |
| <b>Environmental precautions</b>                                           | Prevent spillage from entering drains. Any release to the environment may be subject to a federal/national or local reporting requirements                                                                                                              |
| <b>Methods and materials for containment and cleaning up</b>               | Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations. |

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## 7. HANDLING AND STORAGE

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### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols.

### Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area. The material is hygroscopic and light sensitive. Keep containers tightly closed. Keep away from heat. Keep away from incompatible materials (see section 10 for incompatibilities).

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### Occupational exposure controls:

| Component        | Exposure Limits      | Basis | Entity |
|------------------|----------------------|-------|--------|
| Propylene glycol | 10 mg/m <sup>3</sup> | WEEL  | AIHA   |

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

### Personal Protection

|                   |                                                                                                             |
|-------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Eyes</b>       | Wear chemical safety glasses or goggles.                                                                    |
| <b>Inhalation</b> | Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator. |
| <b>Skin</b>       | Wear nitrile or rubber gloves, apron or lab coat.                                                           |
| <b>Other</b>      | Not Available                                                                                               |

### Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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|                                             |                              |
|---------------------------------------------|------------------------------|
| Appearance (physical state, color, etc.)    |                              |
| Odor                                        |                              |
| pH                                          | 9.0-10.5                     |
| Specific gravity                            | 1.046 min.                   |
| Freezing point                              | -60°C (-76°F)                |
| Boiling point                               | 188°C 370°F                  |
| Flash point                                 | Not Flammable                |
| Flammability (solid, gas)                   | Not Flammable                |
| Upper/lower flammability or explosive limit | Not Explosive                |
| Vapor pressure                              | 10 mmHg at 20°C (68°F)       |
| Vapor density                               | 2.1 (air = 1)                |
| Solubility                                  | Completely soluble in water. |
| Percent volatile by Volume                  | NIL                          |

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## 10. STABILITY AND REACTIVITY

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|                                           |                                                                                                                                              |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chemical Stability</b>                 | Stable                                                                                                                                       |
| <b>Possibility of Hazardous Reactions</b> | Will not occur.                                                                                                                              |
| <b>Conditions to Avoid</b>                | Storage below 15.5°C (60°F) or above 65.5°C (150°F)                                                                                          |
| <b>Incompatible Materials</b>             | Oxidizing agents, acids, alkalis, chloroformates, caustics, aliphatic amines, isocyanates, acid anhydrides, silver nitrate, reducing agents. |
| <b>Hazardous Decomposition Products</b>   | Oxides of carbon.                                                                                                                            |

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## 11. TOXICOLOGICAL INFORMATION

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### Acute Toxicity

#### *Propylene Glycol*

|                    |                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin</b>        | LD50 Dermal – rabbit – 20,800 mg/kg                                                                                                                                                                                                                                                                                                                                                 |
| <b>Eyes</b>        | Not Available                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Respiratory</b> | Not Available                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Ingestion</b>   | LD50 Oral – rat – 20,000 mg/kg                                                                                                                                                                                                                                                                                                                                                      |
| <b>Other</b>       | LD50 Intramuscular – rat – 14 g/kg<br>LD50 Intravenous – dog – 26 g/kg<br>LD50 Intraperitoneal – rat – 6,660 mg/kg<br>LD50 Subcutaneous – rat – 22,500 mg/kg<br>LD50 Intravenous – rat – 6,423 mg/kg<br>LD50 Intraperitoneal – mouse – 9,718 mg/kg<br>LD50 Subcutaneous – mouse – 17,370 mg/kg<br>LD50 Intravenous – mouse – 6,630 mg/kg<br>LD50 Intravenous – rabbit – 6,500 mg/kg |

### Carcinogenicity

|              |                                                                                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IARC</b>  | No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| <b>ACGIH</b> | No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.            |
| <b>NTP</b>   | No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.                 |
| <b>OSHA</b>  | No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.             |

### Signs & Symptoms of Exposure

|                                       |                                                           |
|---------------------------------------|-----------------------------------------------------------|
| <b>Skin</b>                           | Mild irritation.                                          |
| <b>Eyes</b>                           | Mild irritation.                                          |
| <b>Respiratory</b>                    | Irritation to respiratory tract.                          |
| <b>Ingestion</b>                      | Gastrointestinal irritation, nausea; headache.            |
| <b>Chronic Toxicity</b>               | May cause damage to central nervous system (CNS)          |
| <b>Teratogenicity</b>                 | May cause adverse reproductive effects and birth defects. |
| <b>Mutagenicity</b>                   | May affect genetic material.                              |
| <b>Embryotoxicity</b>                 | Not Available                                             |
| <b>Specific Target Organ Toxicity</b> | Not Available                                             |
| <b>Reproductive Toxicity</b>          | Not Available                                             |
| <b>Respiratory/Skin Sensitization</b> | Not Available                                             |

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## 12. ECOLOGICAL INFORMATION

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### Ecotoxicity

#### *Propylene Glycol*

|                             |                                                                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Aquatic Vertebrate</b>   | Mortality NOEC – Pimephales promelas (fathead minnow) – 52,930 mg/l – 96 hours                                                      |
| <b>Aquatic Invertebrate</b> | Mortality NOEC – Daphnia magna (water flea) – 13,020 mg/l – 48 hours<br>EC50 – Daphnia magna (water flea) - >10,000 mg/l – 48 hours |
| <b>Terrestrial</b>          | Not available                                                                                                                       |

|                                      |               |
|--------------------------------------|---------------|
| <b>Persistence and Degradability</b> | Not available |
| <b>Bioaccumulative Potential</b>     | Not available |
| <b>Mobility in Soil</b>              | Not available |
| <b>PBT and vPvB Assessment</b>       | Not available |
| <b>Other Adverse Effects</b>         | Not available |

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## 13. DISPOSAL CONSIDERATIONS

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|                           |                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Waste Residues</b>     | Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container or residue. |
| <b>Product Containers</b> | Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.            |

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## 14. TRANSPORT INFORMATION

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|                  |                     |
|------------------|---------------------|
| US DOT           | Not Dangerous Goods |
| TDG              | Not Dangerous Goods |
| IDMG             | Not Dangerous Goods |
| Marine Pollutant | No                  |
| IATA/ICAO        | Not Dangerous Goods |

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.

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## 15. REGULATORY INFORMATION

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|                           |                                                   |
|---------------------------|---------------------------------------------------|
| TSCA Inventory Status     | All ingredients are listed on the TSCA inventory. |
| DSCL (EEC)                | All ingredients are listed on the DSCL inventory. |
| California Proposition 65 | Not Listed                                        |
| SARA 302                  | No SARA Hazard                                    |
| SARA 304                  | No SARA Hazard                                    |
| SARA 311                  | No SARA Hazard                                    |
| SARA 312                  | No SARA Hazard                                    |
| SARA 313                  | No SARA Hazard                                    |
| WHMIS Canada              | Not WHMIS Listed                                  |

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## 16. OTHER INFORMATION

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| Revision | Date       |
|----------|------------|
| 1.0      | 06/01/2018 |
|          |            |
|          |            |

Disclaimer: We believe that the information herein is factual but is not intended to be all inclusive. The information relates only to the specific material designated and does not relate to its use in combination with other materials or its use as to any particular process. Because safety standards and regulations are subject to change and because we have no continuing control over the material, those handling, storing or using the material should satisfy themselves that they have current information regarding the particular way the material is handled, stored or used and that the same is done in accordance with federal, state and local law. WE MAKE NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE.