



# SAFETY DATA SHEET

Issue Date 5/17/2024

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Version 1

## 1. IDENTIFICATION

**Product identifier**

**Product Name:** Thermal Trans Heat Transfer Fluid

**Other means of identification**

**Product code:** F-610 (all grades)

**Synonyms:** None

**Recommended use of the chemical and restrictions on use**

**Recommended Use:** Lubricant.

**Uses advised against:** No information available

**Details of the supplier of the safety data sheet**

**Supplier Address**

FRONTIER PERFORMANCE LUBRICANTS INC  
 PO BOX 1777  
 LODI, CA 95241  
 Phone: (800)-807-4496  
 Fax: (209)-334-6408

**Emergency telephone number**

**Emergency Telephone:** PERS (800)-633-8253

## 2. HAZARDS IDENTIFICATION

**Classification of the Mixture**

Liquid, Slight petroleum odor.

**Most Important Hazards**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Hazard Category**

Acute Oral Toxicity Category 4  
 Skin Irritation Category 2  
 Eye Irritation Category 2A  
 Skin Sensitization Category 1B

**Signal Word**

Warning!

**Pictogram**



**Hazard Statements**

Causes serious eye irritation.  
 Causes skin sensitization with susceptible individuals.  
 Causes eye, skin and respiratory tract irritation.  
 Harmful if swallowed.

**Precautionary Statements**

**Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray. Use only with adequate ventilation. Do not eat, drink or smoke when using this product Wash thoroughly after handling.

**Response**

Contaminated work clothing must not be allowed out of the workplace. Wash contaminated clothing before reuse. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If eye irritation persists: get medical advice/attention  
 If on skin: wash with plenty of water.  
 If swallowed, call a poison center/doctor if you feel unwell

**Storage**

Keep container tightly closed. Store locked up

**Disposal**

Dispose of contents/containers in accordance with local and national regulations.

**Carcinogenicity:**

<b>IARC</b>	No component 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>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by OSHA.
<b>NTP</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by NTP

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	WT %	CAS #
Distillates, hydrotreated heavy paraffinic	60-95	Mixture
Proprietary	0.1-5	Trade Secret

To the knowledge of the supplier, there are no other ingredients in this product that are classified as hazardous.

### 4. FIRST AID MEASURES

<b>Eyes</b>	Flush eyes with running water for at least 15 minutes. If redness, burning, blurred vision or irritation persists, transport to nearest medical facility for additional treatment.
<b>Skin</b>	Flush skin with water, wash with soap and water. If irritation occurs, get medical attention. Remove contaminated clothing. Do not reuse clothing until cleaned. If material is injected under the skin, transport to the nearest medical facility for additional treatment. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.
<b>Ingestion</b>	Do NOT induce vomiting and obtain medical attention. Have victim rinse mouth out with water. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	
<b>Base Oil Flash point</b>	>207°C (ASTM D92)
<b>Flammable limits in air</b>	N/A
<b>Auto ignition temperature</b>	N/A
<b>Extinguishing media</b>	CO <sub>2</sub> , dry chemical, foam, alcohol-resistant foam, water mist
<b>Special firefighting measure</b>	Procedures for an oil fire should be utilized. Use self-contained breathing apparatus. Use foam or dry chemical to extinguish fire. Water may be used <u>only</u> to keep surrounding containers cool. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions/Procedures:** Use PPE and ensure adequate ventilation.

**Environmental Precautions:** Should not be released into the environment.  
Do not contaminate water.  
Do not flush to surface water or sanitary sewer system.

**Methods and Materials for Containment/Clean Up:**  
Contain spillage, soak up with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).

### 7. HANDLING AND STORAGE

**Handling and Storage Precautions** Avoid heat, open flames, including pilot lights, and strong oxidizing agents. Use explosion-proof ventilation to prevent vapor accumulation. Ground all handling equipment to prevent sparking. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering Controls</b>	Use adequate ventilation to keep vapors and mists of this material below applicable standards. Recommended work place control parameters - based on mineral oil ACGIH TWA 5 mg/m <sup>3</sup> .
<b>Respiratory Protection</b>	If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.
<b>Skin Protection</b>	Use protective clothing that is chemically resistant to this product. Acceptable materials for gloves and aprons are: neoprene, nitrile rubber or viton.
<b>Eye Protection</b>	Use safety glasses or goggles. Have suitable eye wash water available.
<b>Other/General Protection</b>	For mists and vapors: Air purifying, organic vapor cartridge, NIOSH approved respirator. Use self-contained breathing apparatus for environments with unknown concentrations or emergency situations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Color:</b>	Clear, Yellow	<b>Vapor Pressure:</b>	N/A	<b>Solubility in Water:</b>	Insoluble
<b>Appearance:</b>	Liquid	<b>% Volatile by Volume:</b>	N/A	<b>Evaporation Rate</b>	N/A
<b>Odor:</b>	Characteristic	<b>Vapor Density (air = 1):</b>	N/A	<b>(Butyl Acetate = 1):</b>	<1
<b>Boiling Point:</b>	315°C	<b>Reactivity in Water:</b>	Non-reactive	<b>Specific Gravity:</b>	0.80-0.91

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable
<b>Conditions to avoid</b>	Sources of ignition.
<b>Incompatibility</b>	Strong oxidizing or reducing agents.
<b>Decomposition Products</b>	Oxides of Carbon and Hydrogen.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Likely Routes of Exposure</b>	Inhalation, skin, eyes and ingestion.
<b>Potential Health Effects</b>	
<b>Eye Effects</b>	Can cause irritation, redness, burns, and tissue destruction.
<b>Skin Effects</b>	Can cause inflammation, and significant irritation.
<b>Oral Effects</b>	Gastrointestinal tract irritation, nausea, and vomiting if swallowed.
<b>Inhalation Effects</b>	May cause respiratory tract irritation.
<b>Chronic Health Effects</b>	No data available to indicate product or components present in mixture are chronic health hazards.
<b>Mutagenicity</b>	Negative
<b>Carcinogenicity</b>	None anticipated
<b>Reproductive Effects</b>	Negative.
<b>Teratogenicity</b>	Negative.
<b>Sensitization</b>	See section 2
<b>Toxicological Data</b>	ATE oral is >2,000 mg/kg ATE dermal is > 4,000 mg/kg ATE inhalation (mist/aerosol) is estimated at 2.2 mg/L/4 h

## 12. ECOLOGICAL INFORMATION

Not classified due to inadequate data available on this mixture. Highly recommend avoidance of release to the environment.

## 13. DISPOSAL CONSIDERATIONS

Avoid release to the environment. Dispose in a safe manner in accordance with national, state and local regulations. Not a RCRA hazardous waste if uncontaminated. If "used" RCRA criteria must be determined. Dispose of container by recycling or if permitted incineration.

## 14. TRANSPORT INFORMATION

<b>Proper Shipping Name</b>	PETROLEUM LUBRICATING OIL; NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER 49 CFR.
<b>Shipping Class</b>	65

Dot Identification Number N/A  
 Dot Shipping Label Not regulated by DOT.  
 TDG Classification Not controlled under TDG (Canada).

**15. REGULATORY INFORMATION**

**U.S. Federal Regulatory Information**

SARA 302 Threshold Planning Quantity N/A  
 SARA 304 Reportable Quantity N/A  
**SARA 311 Categories**  
 Acute Health Effects None  
 Chronic Health Effects None  
 Fire Hazard No  
 Sudden Release of Pressure Hazard No  
 Reactivity Hazard No

EPA/TSCA Inventory Listed  
 EPA Hazard Classification Code Not applicable  
 CERCLA No components are subject to reporting.  
**SARA Title III - Section 313 Supplier Notification**

No Chemicals in this product exceed the DE Minimus reporting level established by SARA Title III, Section 313 and 40 CFR 372.

**WHMIS Classification** This product is not considered controlled.

**Other Regulations** All components of this formulation are listed on the CEPA-DSL (Domestic Substance List)

**16. OTHER INFORMATION**

**NFPA Hazard Rating:**

<b>Health:</b>	<b>0</b>	<b>Negligible</b>
<b>Flammability:</b>	<b>1</b>	<b>Slight</b>
<b>Reactivity:</b>	<b>0</b>	<b>Negligible</b>

\*Threshold Limit Value/Personal Exposure Limit

N/A = Not Applicable

N/E = Not Established

Issue Date 5/17/2024  
 Revision Date 5/17/2024  
 Revision Note Not applicable

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**