SECTION 1: IDENTIFICATION

Product Identifier

Product Name: Refrigeration Fluid
Synonyms: RF100, RF150, RF200, RF300, RF400, RF500

Intended Use of the Product
Refrigeration fluid

Name, Address, and Telephone of the Responsible Party

Company
Soltex Inc. (Synthetic Oils & Lubricants of Texas)
3707 FM 1960 W Ste. 560
Houston, TX 77068
(281)-587-0900
soltexinc.com

Emergency Telephone Number

Emergency Number: (800)-424-9300 (CHEMTREC); (281)-587-0900 (Other Safety Information)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)
This product is not considered to be a hazardous substance or mixture when classified in accordance with Regulation 29 CFR 1910.1200 (US GHS).

Label Elements
No labeling is required under Regulation 29 CFR 1910.1200 (US GHS).

Other Hazards
No additional information available

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>% (w/w)</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene, mono-C10-13-alkyl derivatives, distillation residues</td>
<td>(CAS No) 84961-70-6</td>
<td>0.1 to 1, 1 to 5, 5 to 10, 10 to 30, 30 to 60, or 60 to 100</td>
<td></td>
</tr>
<tr>
<td>Benzene, polypropene derivatives</td>
<td>(CAS No) 68081-77-6</td>
<td>0.1 to 1, 1 to 5, 5 to 10, 10 to 30, 30 to 60, or 60 to 100</td>
<td>Aquatic Chronic 4, H413</td>
</tr>
<tr>
<td>Benzene, C14-30-alkyl derivatives</td>
<td>(CAS No) 68855-24-3</td>
<td>0.1 to 1, 1 to 5, 5 to 10, 10 to 30, 30 to 60, or 60 to 90</td>
<td></td>
</tr>
</tbody>
</table>

More than one of the ranges of concentration prescribed by Controlled Products Regulations has been used where necessary, due to varying composition. Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.
**SECTION 4: FIRST AID MEASURES**

**Most Important Symptoms and Effects Both Acute and Delayed**

*Inhalation*: May cause respiratory irritation.

*Skin Contact*: May cause skin irritation.

*Eye Contact*: May cause eye irritation.

*Ingestion*: May be harmful if swallowed and enters airways.

*Chronic Symptoms*: None expected under normal conditions of use.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

If you feel unwell, seek medical advice (show the label where possible).

**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

*Suitable Extinguishing Media*: Water spray, fog, carbon dioxide, foam, dry chemical.

* Unsuitable Extinguishing Media*: Use of heavy stream of water may spread fire.

**Special Hazards Arising From the Substance or Mixture**

*Fire Hazard*: Not flammable but will support combustion.

*Explosion Hazard*: Product is not explosive.

*Reactivity*: Hazardous reactions will not occur under normal conditions.

**Advice for Firefighters**

*Precautionary Measures Fire*: Exercise caution when fighting any chemical fire.

*Firefighting Instructions*: Use water spray or fog for cooling exposed containers.

*Protection During Firefighting*: Do not enter fire area without proper protective equipment, including respiratory protection.

*Hazardous Combustion Products*: Carbon oxides (CO, CO$_2$). Unidentified organic compounds.

*Other Information*: Do not allow run-off from fire fighting to enter drains or water courses.

**Reference to Other Sections**

Refer to section 9 for flammability properties.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**

*General Measures*: Avoid breathing (vapor, mist, spray). Avoid all contact with skin, eyes, or clothing.

*For Non-Emergency Personnel*

*Protective Equipment*: Use appropriate personal protection equipment (PPE).

*Emergency Procedures*: Evacuate unnecessary personnel.

*For Emergency Personnel*

*Protective Equipment*: Equip cleanup crew with proper protection.

*Emergency Procedures*: Ventilate area.

**Environmental Precautions**

Prevent entry to sewers and public waters.

**Methods and Material for Containment and Cleaning Up**

*For Containment*: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

*Methods for Cleaning Up*: Clear up spills immediately and dispose of waste safely.

**Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection.

**SECTION 7: HANDLING AND STORAGE**

**Precautions for Safe Handling**

*Hygiene Measures*: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

**Conditions for Safe Storage, Including Any Incompatibilities**

*Technical Measures*: Comply with applicable regulations.

*Storage Conditions*: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.


*Specific End Use(s)* Refrigeration fluid
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters
No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

Exposure Controls
Appropriate Engineering Controls: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Avoid all unnecessary exposure.

Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wash contaminated clothing before reuse.

Respiratory Protection: Wear respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear yellow liquid</td>
</tr>
<tr>
<td>Color, D1500</td>
<td>1.50</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing/Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt;130 °C (&gt;260 °F) Clevland open-cup</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper/Lower Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Vapor Density at 20 °C</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity, 15.6°C/15.6°C</td>
<td>0.83 – 0.88</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition Coefficient: N-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity, Kinematic</td>
<td>21 - 105 cSt @ 40 °C/104 °F</td>
</tr>
<tr>
<td>Explosion Data – Sensitivity to Mechanical Impact</td>
<td>Not expected to present an explosion hazard due to mechanical impact.</td>
</tr>
<tr>
<td>Explosion Data – Sensitivity to Static Discharge</td>
<td>Not expected to present an explosion hazard due to static discharge.</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures.


Hazardous Decomposition Products: Carbon oxides (CO, CO₂).
SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Not classified
 Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Teratogenicity: Not available
Carcinogenicity: Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Aspiration Hazard: Not classified.
Symptoms/Injuries After Inhalation: May cause respiratory irritation.
Symptoms/Injuries After Skin Contact: May cause skin irritation.
Symptoms/Injuries After Eye Contact: May cause eye irritation.
Symptoms/Injuries After Ingestion: May be harmful if swallowed and enters airways.
Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data: Not available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity  No additional information available
Persistence and Degradability  Not established
Bioaccumulative Potential  Not established
Mobility in Soil  Not available
Other Adverse Effects
Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Sewage Disposal Recommendations: Do not empty into drains; dispose of this material and its container in a safe way.
Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT  Not regulated for transport
In Accordance with IMDG  Not regulated for transport
In Accordance with IATA  Not regulated for transport
In Accordance with TDG  Not regulated for transport

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Refrigeration Fluid
SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard
Benzene, mono-C10-13-alkyl derivatives, distillation residues (84961-70-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Benzene, C14-30-alkyl derivatives (68855-24-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Benzene, polypropene derivatives (68081-77-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Refrigeration Fluid

Safety Data Sheet
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

**US State Regulations**
Neither this product nor its chemical components appear on any US state lists.

**Canadian Regulations**

<table>
<thead>
<tr>
<th>Refrigeration Fluid</th>
<th>Uncontrolled product according to WHMIS classification criteria</th>
</tr>
</thead>
</table>

| Benzene, mono-C10-13-alkyl derivatives, distillation residues (84961-70-6) |
| Listed on the Canadian NDSL (Non-Domestic Substances List) |

| Benzene, C14-30-alkyl derivatives (68855-24-3) |
| Listed on the Canadian DSL (Domestic Substances List) |

| Benzene, polypropene derivatives (68081-77-6) |
| Listed on the Canadian DSL (Domestic Substances List) |

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

**International Regulations**

| Benzene, Mono-c10-13-alkyl Derivatives, Distillation Residues (84961-70-6) |
| Listed on the AICS (Australian Inventory of Chemical Substances) |
| Listed on the Canadian NDSL (Non-Domestic Substances List) |
| Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| Benzene, C14-30-alkyl Derivatives (68855-24-3) |
| Listed on the AICS (Australian Inventory of Chemical Substances) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |
| Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory |
| Listed on the Korean ECL (Existing Chemicals List) |
| Listed on NZIoC (New Zealand Inventory of Chemicals) |
| Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| Benzene, Polypropene Derivatives (68081-77-6) |
| Listed on the AICS (Australian Inventory of Chemical Substances) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) |
| Listed on the Korean ECL (Existing Chemicals List) |
| Listed on NZIoC (New Zealand Inventory of Chemicals) |
| Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

**SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**

<table>
<thead>
<tr>
<th>Revision Date</th>
<th>01/19/2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Information</td>
<td>This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.</td>
</tr>
</tbody>
</table>

**GHS Full Text Phrases:**

<table>
<thead>
<tr>
<th>Aquatic Chronic 4</th>
<th>Hazardous to the aquatic environment - Chronic Hazard Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>H413</td>
<td>May cause long lasting harmful effects to aquatic life</td>
</tr>
</tbody>
</table>
Refrigeration Fluid
Safety Data Sheet
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Party Responsible for the Preparation of This Document
Synthetic Oils and Lubricants of Texas
Suite 560
Houston, TX 77068
281-587-0900
www.soltexinc.com

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS 2