SECTION 1: IDENTIFICATION

Product Identifier
Product Name: Refrigeration Fluid
Synonyms: RF150A, RF 200A

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)
Not a hazardous substance or mixture according to OSHA HCS 2012

Label Elements
GHS-US Labeling
Hazard Pictograms (GHS-US) : None
Signal Word (GHS-US) : None
Hazard Statements (GHS-US) : H401 - Toxic to aquatic life.
H413 - May cause long lasting harmful effects to aquatic life.

Precautionary Statements (GHS-US) : P273 - Avoid release to the environment.
P301+P310 - If swallowed: Immediately call a POISON CENTER/doctor.
P331 - Do NOT induce vomiting.
P501 - Dispose of contents/container according to local, regional, national, and international regulations.

Other Hazards
Persons with pre-existing neuromuscular disorders may be at increased risk of neurotoxic effects from Triphenyl phosphate.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Mixture</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>25 to 30, 30 to 60, or 60 to 85</td>
<td>Aquatic Chronic 4, H413</td>
</tr>
<tr>
<td>Benzene, polypropene derivatives</td>
<td>(CAS No) 68081-77-6</td>
<td>15 to 30, 30 to 60, or 60 to 80</td>
<td>Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>tert-Butylphenyl diphenyl phosphate</td>
<td>(CAS No) 56803-37-3</td>
<td>0.1 to 1 or 1 to 5</td>
<td>Acute Tox. 4 (Inhalation:vapor), H332</td>
</tr>
<tr>
<td>Triphenyl phosphate</td>
<td>(CAS No) 115-86-6</td>
<td>0.1 - 1</td>
<td>Aquatic Acute 1, H400</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.

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

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

**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, CO₂). Unidentified organic compounds. Phosphorus oxides.

**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. Contact competent authorities after a spill.

**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.
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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

<table>
<thead>
<tr>
<th>Triphenyl phosphate (115-86-6)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mexico OEL TWA (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>Mexico OEL STEL (mg/m³)</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td>USA ACGIH ACGIH TWA (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>USA OSHA OSHA PEL (TWA) (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>USA NIOSH NIOSH REL (TWA) (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>USA IDLH US IDLH (mg/m³)</td>
<td>1000 mg/m³</td>
</tr>
<tr>
<td>Alberta OEL TWA (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>British Columbia OEL TWA (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>Manitoba OEL TWA (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>New Brunswick OEL TWA (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>Newfoundland &amp; Labrador OEL TWA (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>Nova Scotia OEL TWA (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>Nunavut OEL STEL (mg/m³)</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td>Nunavut OEL TWA (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>Northwest Territories OEL STEL (mg/m³)</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td>Northwest Territories OEL TWA (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>Ontario OEL TWA (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>Prince Edward Island OEL TWA (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>Québec VEMP (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>Saskatchewan OEL STEL (mg/m³)</td>
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</tr>
<tr>
<td>Saskatchewan OEL TWA (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>Yukon OEL STEL (mg/m³)</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td>Yukon OEL TWA (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
</tbody>
</table>

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

Physical State: Liquid
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Appearance: Clear yellow liquid
Color, D1500: 1.50
Odor: Not available
Odor Threshold: Not available
pH: Not available
Evaporation Rate: Not available
Freezing/Melting Point: Not available
Boiling Point: Not available
Flash Point: > 175 °C (> 347 °F) Cleveland open-cup
Auto-ignition Temperature: Not available
Decomposition Temperature: Not available
Flammability (solid, gas): Not available
Upper /Lower Flammable Limit: Not available
Vapor Pressure: Not available
Relative Vapor Density at 20 °C: Not available
Specific Gravity, 15.6°C/15.6°C: 0.86 – 0.87
Solubility: Not available
Partition Coefficient: N-octanol/water: Not available
Viscosity: Not available
Viscosity, Kinematic: 29 - 48 cSt @ 40 °C/104 °F
Explosion Data – Sensitivity to Mechanical Impact: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge: Not expected to present an explosion hazard due to static discharge.

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.

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

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:

<table>
<thead>
<tr>
<th>LD50 Oral Rat</th>
<th>LD50 Dermal Rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td>3500 mg/kg</td>
<td>&gt; 7900 mg/kg</td>
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</tbody>
</table>

Triphenyl phosphate (115-86-6)

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<table>
<thead>
<tr>
<th>tert-Butylphenyl diphenyl phosphate (56803-37-3)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE US (vapors)</td>
<td>11.00 mg/l/4h</td>
</tr>
</tbody>
</table>

**SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity**

Ecology - General: Toxic to aquatic life.

**Triphenyl phosphate (115-86-6)**

| LC50 Fish 1 | 0.28 - 0.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |
| EC50 Daphnia 1 | 0.86 - 1.2 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC 50 Fish 2 | 0.81 - 0.94 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |

**Persistence and Degradability** Not established

**Bioaccumulative Potential**

<table>
<thead>
<tr>
<th>Refrigeration Fluid</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulative Potential</td>
<td>Not established</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Triphenyl phosphate (115-86-6)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF Fish 1</td>
<td>84 - 193</td>
</tr>
<tr>
<td>Log Pow</td>
<td>4.59</td>
</tr>
</tbody>
</table>

**Mobility in Soil** Not available

**Other Adverse Effects**

Other Information: Avoid release to the environment.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Sewage Disposal Recommendations:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

**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**

<table>
<thead>
<tr>
<th>Refrigeration Fluid</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>SARA Section 311/312 Hazard Classes</td>
<td>Immediate (acute) health hazard</td>
</tr>
<tr>
<td>Benzene, mono-C10-13-alkyl derivatives, distillation residues (84961-70-6)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td>Benzene, polypropene derivatives (68081-77-6)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td>Triphenyl phosphate (115-86-6)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td>tert-Butylphenyl diphenyl phosphate (56803-37-3)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

**US State Regulations**

<table>
<thead>
<tr>
<th>Refrigeration Fluid</th>
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</thead>
<tbody>
<tr>
<td>U.S. - Massachusetts - Right To Know List</td>
<td></td>
</tr>
<tr>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
<td></td>
</tr>
<tr>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
<td></td>
</tr>
</tbody>
</table>

**Canadian Regulations**

<table>
<thead>
<tr>
<th>Refrigeration Fluid</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WHMIS Classification</td>
<td>Uncontrolled product according to WHMIS classification criteria</td>
</tr>
</tbody>
</table>
Refrigeration Fluid
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- Benzene, mono-C10-13-alkyl derivatives, distillation residues (84961-70-6)
  Listed on the Canadian NDSL (Non-Domestic Substances List)

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

- Triphenyl phosphate (115-86-6)
  Listed on the Canadian DSL (Domestic Substances List)
  Listed on the Canadian IDL (Ingredient Disclosure List)
  IDL Concentration 1 %
  WHMIS Classification | Uncontrolled product according to WHMIS classification criteria

- tert-Butylphenyl diphenyl phosphate (56803-37-3)
  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, 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

- Triphenyl Phosphate (115-86-6)
  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 EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
  Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
  Listed on the Japanese ISHL (Industrial Safety and Health Law)
  Listed on the Korean ECL (Existing Chemicals List)
  Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
  Listed on the United States TSCA (Toxic Substances Control Act) inventory
  Listed on the Canadian IDL (Ingredient Disclosure List)

- tert-butylphenyl Diphenyl Phosphate (56803-37-3)
  Listed on the AICS (Australian Inventory of Chemical Substances)
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  Listed on the Japanese ISHL (Industrial Safety and Health Law)
  Listed on the Korean ECL (Existing Chemicals List)
  Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
  Listed on the United States TSCA (Toxic Substances Control Act) inventory
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SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

<table>
<thead>
<tr>
<th>Revision Date</th>
<th>01/20/2016</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>Acute Tox. 4 (Inhalation:vapor)</th>
<th>Acute toxicity (inhalation:vapor) Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 1</td>
</tr>
<tr>
<td>Aquatic Acute 2</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 2</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 2</td>
</tr>
<tr>
<td>Aquatic Chronic 4</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 4</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H401</td>
<td>Toxic to aquatic life</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H413</td>
<td>May cause long lasting harmful effects to aquatic life</td>
</tr>
</tbody>
</table>

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.