

MATERIAL SAFETY DATA SHEET

Section 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: **RF 150TD**
 Product Use: Refrigeration fluid
 Composition:

<u>CAS NO.</u>	<u>Hazardous Ingredient</u>	<u>Wt-%</u>
	THIS PRODUCT IS CONSIDERED AS NON-HAZARDOUS	

Latest Revision Date: April 19, 2010
 Emergency Phone Number: CHEMTREC (800) 424-9300
 Exposure Standard: No OSHA standard or Threshold Limit Value has been established for this material.
 HMIS/NFPA Codes: (Health; 0) (Flammibility; 1) (Reactivity; 0)
 DOT Proper Shipping Name: Not Regulated

Section 2 - TYPICAL CHEMICAL & PHYSICAL PROPERTIES

<u>Physical Form</u> : Liquid	<u>Freezing Point</u> : Not determined	<u>Specific Gravity</u> : 0.86 – 0.88
<u>Color</u> : Clear to light yellow	<u>Vapor Density</u> : Not determined	<u>Viscosity</u> : 29-35 cSt /40 °C
<u>Odor</u> : Odorless	<u>Vapor Pressure</u> : Not determined	<u>Evaporation Rate</u> : Not determined
<u>Boiling Point</u> : 315°C (600 °F)	<u>Solubility in water</u> : Insoluble	<u>Volatile %-wt</u> : Not determined



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Section 3 - REACTIVITY DATA

Stability: Stable.

Hazardous Decomposition Products: None. Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.

Hazardous Polymerization: Will not occur.

Section 4 - HEALTH INFORMATION & PROTECTION

NATURE OF HAZARD

EYE CONTACT:

Slightly irritating but does not injure eye tissue.

SKIN CONTACT:

No hazard in normal industrial use. Prolonged contact may cause irritation.
Exposure to hot material may cause thermal burns.

INHALATION:

Negligible hazard at ambient (-18 to 38 Deg. C; 0 to 100 Deg. F) or recommended blending temperature.
Avoid breathing vapors or mists.

INGESTION:

Minimal toxicity. Give water. Do not induce vomiting.

FIRST AID

EYE CONTACT:

Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.



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INHALATION:

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

INGESTION:

First aid is normally not required.

WORKPLACE EXPOSURE LIMITS

THE FOLLOWING OCCUPATIONAL EXPOSURE LIMITS ARE RECOMMENDED:

Due to the oil-based components of this mixture, if misting occurs, control of exposure to 5mg/m³ or less is recommended.

PRECAUTIONS

PERSONAL PROTECTION:

For open systems where contact is likely, wear safety glasses with side shields.
Where contact may occur, wear safety glasses with side shields.
Where contact may occur with hot materials, wear thermal resistant gloves, arm protection and a face shield.
Where concentrations in air may exceed the limits given in this section and engineering, work practice or other means of exposure reduction are not adequate, NIOSH/MSHA approved respirators may be necessary to prevent overexposure by inhalation.

VENTILATION:

The use of mechanical dilution ventilation is recommended whenever this product is used in confined space, is heated above ambient temperatures, or is agitated.

Section 5 - FIRE AND EXPLOSION DATA

Flash Point:	175 Deg. C min.
Flammable Limits:	N/A
Extinguishing Media:	CO ₂ , Dry Chemical, Foam, or any Class B agent.



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Fire Fighting:

Firefighters or others exposed to vapors or products of combustion should wear full protective clothing and self-contained breathing apparatus. Thoroughly decontaminate equipment after use.

Section 6 - STORAGE AND ENVIRONMENTAL PROTECTION

STORAGE REQUIREMENTS:

No special requirements

SPILLS AND LEAKS:

Remove mechanically or contain on an absorbent material. Treat as an oil spill.

WASTE DISPOSAL:

Disposal must be in accordance with applicable federal, state, or local regulations. Determine waste classification at time of disposal. Conditions of use may render the spent product a hazardous waste. Enclosed-controlled incineration is recommended unless directed otherwise by applicable ordinances.

EMPTY CONTAINERS:

The container for this product can present explosion or fire hazards, even when emptied. To avoid risk of injury, do not cut, puncture or weld on or near this container. Since the emptied containers retain product residue, follow label warnings even after container is emptied.

Section 7 – TRANSPORTATION INFORMATION

Regulation	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT (Land)	Not regulated			
IMO (Water)	Not regulated			
ICAO (Air)	Not regulated			



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Section 8 - REGULATORY INFORMATION

WHMIS Classification (Workplace Hazardous Material Information System)	Not regulated by WHMIS
SARA Title III (Superfund Amendments and Reauthorization Act)	This product does not contain any Section 313 reportable ingredients and is not regulated under SARA Title III.
OSHA (Occupational Safety and Health Act)	This product is not hazardous as defined in 29 CFR 1910.1200
DOT Hazard Class/ID Number:	Non hazardous
TSCA (Toxic Substances Control Act)	This product and/or all of the components are listed on the TSCA inventory list.
EINECS (European Inventory of Existing Chemical Substances)	Listed
DSL/NDSL (Canadian Domestic Substances List/Non-Domestic Substance List)	Listed on DSL
CERCLA (Comprehensive Response Compensation and Liability Act)	This product is not subject of any special reporting under the requirements under 40 CFR Part 302.4.

This information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.