

SP^x

*Robinair Division
SPX Corporation*

Exponent of Excellence

ROBINAIR

Robinair Way
Montpelier, OH 43543-0193

Phone 419-485-5561
FAX 419-485-8300

Material Safety Data Sheet

The data herein are provided for hazard communication to our employees, our customers and their employees, and authorized regulatory agencies. For the intended purpose, this MSDS may be duplicated or the data transcribed to an alternative form. The information is given in good faith, but no guarantees or warranties expressed or implied, are made.

TRADE NAME: Refrigeration Oil 109952 (150VIS)	DATE PREPARED 5-8-89	ROBINAIR INDEX NO. 461.00-12	PHONE NO. (For Info.) (419) 485-5561 EMERGENCY PHONE NO.
MANUFACTURED BY: Robinair/SPX Corporation Robinair Way Montpelier, OH 43543			
CHEMICAL FAMILY: Lubricating Oil	FORMULA: NA (Mixture)		

SECTION 1 — MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS — Chemical Name & Common Names (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	% *	CAS REGISTRY NUMBER	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Refined Petroleum Oil	100	64742-44-5		5mg/m ³	(Mist)
Non-Hazardous Ingredients					
TOTAL	100				

* OPTIONAL

NA - NOT APPLICABLE

NDA - NO DATA AVAILABLE

< LESS THAN

› MORE THAN

ROBINAIR MATERIAL SAFETY DATA SHEET

PAGE 2 OF 6

TRADE NAME: Refrigeration Oil	DATE PREPARED 5-8-89	ROBINAIR INDEX NO. 461.00-12	PHONE NO. (For Info.) (419) 485-5561
----------------------------------	-------------------------	---------------------------------	---

SECTION 2 — PHYSICAL/CHEMICAL CHARACTERISTICS

MELTING POINT NA	SPECIFIC GRAVITY (H ₂ O = 1) .91 (15.6°C)	EVAPORATION RATE (= 1) Negligible
BOILING POINT °C(°F) >260 (>500)	VAPOR DENSITY (AIR = 1) >10	VAPOR PRESSURE mm HG at 20°C (mm Hg and Temperature) <0.0001
SOLUBILITY IN WATER Insoluble	pH ND	
WATER REACTIVE NA	VOLATILE BY VOLUME Negligible	
APPEARANCE AND ODOR Clear liquid, amber color, petroleum odor.		

SECTION 3 — FIRE AND EXPLOSION HAZARD DATA

FLASH POINT AND METHOD USED ASTM D-92 >150°C, >300°F	AUTO-IGNITION TEMPERATURE NDA	FLAMMABILITY LIMITS IN AIR % BY VOLUME	LEL NA	UEL NA
EXTINGUISHER MEDIA Dry Chemical, CO ₂ , Foam, Water fog, Sand/Earth				
SPECIAL FIRE FIGHTING PROCEDURES Wear self-contained breathing apparatus. (Positive pressure if available) Water spray is an unsuitable extinguishing agent. Water spray to cool containers exposed to flames.				
UNUSUAL FIRE AND EXPLOSION HAZARDS Water fog and foam may cause frothing and spattering. Product of combustion include fumes, smoke and carbon monoxide.				

SECTION 4 — REACTIVITY HAZARD DATA

STABILITY ☒ Stable ☐ Unstable	CONDITIONS TO AVOID NDA
INCOMPATIBILITY (Materials to Avoid) Strong oxidizing agents such as chromic acid, hydrogen peroxide, and bromine.	
HAZARDOUS DECOMPOSITION PRODUCTS Upon combustion, CO ₂ and CO are generated.	
HAZARDOUS POLYMERIZATION ☐ May Occur ☒ Will Not Occur	CONDITIONS TO AVOID NDA

* OPTIONAL

NA - NOT APPLICABLE

NDA - NO DATA AVAILABLE

< LESS THAN

> MORE THAN

ROBINAIR MATERIAL SAFETY DATA SHEET

PAGE 3 OF 6

TRADE NAME: Refrigeration Oil	DATE PREPARED 5-8-89	ROBINAIR INDEX NO. 461.00-12	PHONE NO. (For Info.) (419)485-5561
----------------------------------	-------------------------	---------------------------------	--

SECTION 5 — HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY	☒ Inhalation ☐ Skin Absorption	☒ Ingestion ☐ Not Hazardous	CARCINOGEN LISTED IN	☐ NTP ☐ IARC Monograph	☐ OSHA ☒ Not Listed
THRESHOLD LIMIT VALUE (XX) 5 mg/m ³ Mist PERMISSABLE EXPOSURE LIMIT ()					

HEALTH HAZARDS

EFFECTS OF OVEREXPOSURE: ACUTE	
Eyes:	May cause reversible eye irritation.
Inhalation:	Breathing mist may cause dizziness or pulmonary irritation
Ingestion:	Ingestion may cause cramps and diarrhea.
Skin:	May cause skin irritation.

EFFECTS OF OVEREXPOSURE: CHRONIC	
Eyes:	No reaction expected.
Inhalation:	No reaction expected.
Ingestion:	No reaction expected.
Skin:	Prolonged skin exposure may cause dermatitis or oil acne.

EMERGENCY FIRST AID PROCEDURES - Seek medical assistance for further treatment, observation and support if necessary.

Eyes:	Flush eyes immediately with water at least 15 minutes or until irritation subsides. If irritation persists, consult a physician.
Inhalation:	Not likely to occur except as mist. Remove patient to fresh air. If breathing is difficult, consult a physician.
Ingestion:	Do not induce vomiting. Consult a physician.
Skin:	Wash with soap and water, wash clothing before reuse. If irritation or rash develops, consult a physician.

ROBINAIR MATERIAL SAFETY DATA SHEET

PAGE 4 OF 6

TRADE NAME: Refrigeration Oil	DATE PREPARED 5-8-89	ROBINAIR INDEX NO. 461.00-12	PHONE NO. (For Info.) (419) 485-5561
----------------------------------	-------------------------	---------------------------------	---

SECTION 6 — CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION (Specify Type)	Normally none required. If high vapor or mist concentrations expected - use respirator NIOSH/MSHA approved is required.		
PROTECTIVE GLOVES	Oil impervious gloves	EYE PROTECTION	safety glasses or splash goggles
VENTILATION TO BE USED	☒ Local Exhaust To keep mists below TLV ☐ Mechanical (general) ☐ Special (recommended)		
	☒ Other (Specify) Very high mist concentrations can result in a fire and explosion hazard.		
OTHER PROTECTIVE CLOTHING AND EQUIPMENT	If there is a likelihood of oil splashing, an oil resistant apron should be worn to prevent clothing contamination.		
HYGIENIC WORK PRACTICES	Launder soiled work clothes before reuse.		

SECTION 7 — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Review current local, state and federal laws, codes, statutes and regulations to determine the appropriate agencies to be notified, and the conditions under which they should be notified (See also Sections 1, 4 & 6).

Remove sources of heat or ignition, provide adequate ventilation, contain leak.
Absorb small spills with suitable material such as rags, straw or sand. Report spills as required to appropriate authorities.

Protective Measures During Repair and Maintenance of Contaminated Equipment:
Refer to Section 6 - Special Protective Information.
Avoid prolonged contact with oil, wash skin thoroughly with soap and water.

WASTE DISPOSAL METHOD: Review current local, state and federal statutes, codes, laws and regulations to determine the current status and appropriate disposal method for the ingredients listed in Section 1.

It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal.
Check before disposing to be sure you are in compliance with all applicable laws and regulations.

See Note 1

ROBINAIR MATERIAL SAFETY DATA SHEET

PAGE 5 OF 6

TRADE NAME: Refrigeration Oil	DATE PREPARED 5-8-89	ROBINAIR INDEX NO. 461.00-12	PHONE NO. (For Info.) (419) 485-5561
----------------------------------	-------------------------	---------------------------------	---

SECTION 8 — PRECAUTIONS FOR SAFE HANDLING AND TRANSPORTATION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Store below 120°F. Do not apply high heat or flame to container. Keep separate from strong oxidizing agents.

OTHER PRECAUTIONS AND/OR SPECIAL HAZARDS

Caution:
Empty containers may contain product residue which could include flammable or explosive vapors. See Note 1

DOT INFORMATION:

DOT/UN Shipping Name: Petroleum Oil
DOT Hazard Class: Non-Hazardous
DOT/UN Hazard Identification Number: N/A
DOT Shipping Container Restrictions: N/A

NFPA

Rating * Health 1 Flammability 1 Reactivity 0 Special _____

HMIS

Rating * Health _____ Flammability _____ Reactivity _____ Personal Protection _____

NOTES

* OPTIONAL

NA - NOT APPLICABLE

NDA - NO DATA AVAILABLE

< LESS THAN

> MORE THAN

ROBINAIR MATERIAL SAFETY DATA SHEET

PAGE 6 OF 6

TRADE NAME: Refrigeration Oil	DATE PREPARED 5-8-89	ROBINAIR INDEX NO. 461.00-12	PHONE NO. (For Info.) (419) 485-5561
----------------------------------	-------------------------	---------------------------------	---

NOTES

1. Consult appropriate Federal, State, and Local authorities before reusing, reconditioning, reclaiming, or disposing of empty containers, and/or waste residues of this product.

* OPTIONAL NA - NOT APPLICABLE NDA - NO DATA AVAILABLE > LESS THAN < MORE THAN

R. D. Clark

NAME

Safety Coordinator

TITLE

R.D. Clark

SIGNATURE

5/11/89
DATE

SPX

Robinair Division
SPX Corporation

ROBINAIR

Robinair Way
Montpelier, OH 43543-0193
Phone 419-485-5561
TWX 810-490-2544
FAX 419-485-8300