

Robinair Division Sealed Power Corporation Robinair Way Montpelier, OH 43543-0193 Telephone 419-485-5561 TWX: 810-490-2544

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: All Climate Vacuum Pump Oil (13203, 13204)	DATE-PREPARED 9-19-85	461.00-07	PHONE NO. (For Info.) (419) 485-5561 EMERGENCY PHONE NO.
MANUFACTURED BY:			
Sealed Power Corp.			
Robinair Division			
Robinair Way, Montpelier, OH 43543			and the second s
CHEMICAL FAMILY: Lubricating Oil	FORMULA: NA (Mi	xture)	:

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(s)	100	64742-56-9 64742-65-0		5mg/m ³	(mist)
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Non-Hazardous Ingredients				Military	
TOTAL	100				

		Approx. 100 (100 (100 (100 (100 (100 (100 (100	
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SECTION 2 — PHYSICAL/CHEMICAL CHARACTERISTICS

MELTING POINT °C(°F): NA	SPECIFIC GRAVITY (H ₂ O = 1) 0.87	EVAPORATION RATE = 1) (Butv1 Acetate =1): <1
BOILING 760 mm HG, POINT °C(°F): 373 (703)	VAPOR DENSITY (AIR = 1) >1	VAPOR PRESSURE mmHG (25°C):
SOLUBILITY IN WATER Negligible	рн NDA	
WATER REACTIVE NA	volatile by volume Negligible	
APPEARANCE AND ODOR Faint yellow or	amber liquid, bland odor.	

SECTION 3 — FIRE AND EXPLOSION HAZARD DATA

	°C(°F): AUTO-IGNITION TEMPERATURE NDA	FLAMMABILITY LIMITS IN AIR % BY VOLUME	LEL NA	UEL NA
EXTINGUISHER	dry chemical, foam or water f	fog.	Management of the second secon	NEEDER HEI GEBOURGE VERLEIN VON VON VON SCHOOL VERLEIN VON VON VON VON VON VON VON VON VON VO
SPECIAL FIRE FIGHTING PROCEDURES	-			
I	NDA			
UNUSUAL FIRE AND EXPLOSION HAZARDS				
. 1	Water may cause frothing.			

SECTION 4 — REACTIVITY HAZARD DATA

STABILITY	CONDITIONS TO AVOID							
😾 Stable		NDA						
☐ Unstable								
INCOMPATABILITY (Materials to Avoid)	Strong Oxidar	trong Oxidants.						
HAZARDOUS DECOMPOSITION PRODUCTS	(Thermal, unl	Thermal, unless otherwise specified): CO, CO ₂						
HAZARDOUS POLYMERIZATION May Occur Will Not Occur		conditions to avoid NDA						

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SECTION 5 — HEALTH HAZARD DATA

osha See Note CARCINOGEN PRIMARY ROUTES **X**Inhalation **K** Ingestion ☐ NTP
☐ IARC Monograph ☐ Not Hazardous OF ENTRY Skin Absorption LISTED IN 5mg/m³ THRESHOLD LIMIT VALUE (TLV)
PERMISSABLE EXPOSURE LIMIT (NDA) As oil mist (ACGIH 1984-85; OSHA 1972)

HEALTH HAZARDS

EFFECTS OF OVEREXPOSURE: ACUTE Eyes: May be mildly irritating. Practically non-irritating (0.7-1.7/110, Draize) Inhalation: In enclosed spaces or when hot, vapors may reach Low risk of inhalation. concentrations sufficient to cause drowsiness, dizziness, headache, nausea, or lung irritation. Mists above TLV may cause chemical pneumonitis. LC50/4 H(RAT): >5,000 mg/m Generally low toxicity. Very large amounts may cause generalized depression, headache, drowsiness, nausea, vomiting or diarrhea. Small doses may produce irritation and diarrhea. LD50 (RAT): >15g/Kg See Note 2 Skin: Dermal Contact: Low irritant. Absorption: No probable acute hazard. Non-irritating or practically non-irritating (0-0.6/8. Draize)

EFFECTS OF OVEREXPOSURE: CHRONIC None expected Inhalation: None expected ingestion: None expected Skin. Prolonged and/or frequent contact may cause drying, cracking (Dermatitis) or Folliculitis.

EMERGENCY FIRST AID PROCEDURES - Seek medical assistance for further treatment, observation and support if necessary. Eyes: Flush with large volumes of water. See physician if any complications arise. Inhalation: Remove to fresh air. Respiratory support if necessary. Seek medical aid. Ingestion: Seek medical aid. Do not induce vomiting. See Note 1 Skin: Wash with soap and water. Do not wear heavily contaminated clothing before laundering. Subcutaneous injection is a medical emergency. Seek medical aid immediately See Note 1

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SECTION 6 — CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION Normally none required. If high vapor or mist concentrations expected - (Specify Type) use respirator NIOSH/MSHA approved is required.									
PROTECTIVE GLOVES	PROTECTIVE GLOVES Oil impervious gloves EYE PROTECTION Safety goggles, or chemical, splan								
VENTILATION TO BE USED	XLocal Exhaust To keep mists Mechan	ical (general) NDA	☐ Special						
	[XOther (Specify) Very high mist concernation of the concernation	ntrations can resu	lt in a fire and explosion						
OTHER PROTECTIVE Wear body-covering work clothes to avoid prolonged or repeated exposure.									
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 Protection Information. Avoid prolonged contact with used 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 3

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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 3

DOT INFORMATION:

DOT/UN Shipping Name: Petroleum Lubricating Oil

DOT Hazard Class:

DOT/UN Hazard Identification Number: None assigned

DOT Shipping Container Restrictions:

None .

Hazardous Material Placard/Label:

HMIS Rating * Health 1Flammability 1 Reactivity 0 Special Rating * Health_ Flammability Reactivity Personal Protection

NOTES

1.

Notes to Physician:

If viscosity is less than 100 SUS at 100°F, careful

gastric lavage with tight fitting or cuffed tube is to be

preferred over emesis.

If viscosity is greater than 100 SUS at $100^{\circ}F$, emesis may

be induced for large quantities.

Aspiration may cause chemical pneumonitis or lipoid pneumonia. Subcutaneous injection requires prompt surgical debridement. If not familiar with technique, seek skilled advise.

Viscosity at 100° F = 200.

2. Slightly toxic, 1 pt. to 1 qt. is approximate lethal oral Toxicity Summary:

dose for 150 lb. human adult.

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

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NOTES

Flash Point, PM, °C(°F): 218(424) Fire Point, COC, °C(°F): 252(485)

5.	The base stocks used in "All Climate Vacuum Pump Oil" are best characterized by
	Class 3 (Severely Solvent- Refined Oils), and do not require carcinogenic
	labeling under OSHA's Hazard Communication Standard. This product is not listed
	as a carcinogen or potential carcinogen by NTP, IARC, or by OSHA.

*	OPTIONAL
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NA - NOT APPLICABLE

NDA - NO DATA AVAILABLE

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NAME Director of Manufacturing and Distribution

TITLE SIGNATURE

6-18-86 DATE



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