



MATERIAL SAFETY DATA SHEET

SECTION I.

PRODUCT NAME OR NUMBER (as it appears on label) SUNISO REFRIGERATION OIL 4GS (L127 - L319 - L322 - L325)	
MANUFACTURER'S NAME Virginia KMP Corporation	EMERGENCY TELEPHONE NO. (214) 330-7731
ADDRESS (Number, Street, City, State and Zip Code) 4100 Platinum Way Dallas, Texas 75237-1616	
HAZARDOUS MATERIAL DESCRIPTION, PROPER SHIPPING NAME, HAZARD CLASS, HAZARD ID NO. (49 CFR 172.101) Non - Hazardous (Lubricating Oil - Petroleum Base)	
ADDITIONAL HAZARD CLASSES (as applicable) None	
CHEMICAL FAMILY Refined Mineral Oil	FORMULA Mixture of liquid hydrocarbons refined from petroleum.

SECTION II — INGREDIENTS (list all ingredients)

CAS REGISTRY NO.	%W	%V	CHEMICAL NAME(S)	Listed as a Carcinogen in NTP, IARC or OSHA 1910(z) (specify)
64742-52-5	100		Refined Mineral Oil	No
			Defined as Hydrotreated Distillate.	
			Heavy naphthenic - above 100 SSU Hydrocarbons.	
			C20-C50	
			Not Toxic, Hazardous, or Carcino Genic	

SECTION III — PHYSICAL DATA

BOILING POINT 500 °F 266 °C	SPECIFIC GRAVITY (H ₂ O = 1) .91
VAPOR PRESSURE at 20 °C <input checked="" type="checkbox"/> mm Hg	PERCENT VOLATILE BY VOLUME (%) Negligible
VAPOR DENSITY (AIR = 1) 710	PERCENT SOLID BY WEIGHT (%) N/A
SOLUBILITY IN WATER N/A	EVAPORATION RATE (AIR = 1) Negligible
APPEARANCE AND ODOR Clear viscous liquid, petroleum.	PH = N/A
IS MATERIAL: GAS PASTE <u>LIQUID</u> SOLID POWDER	

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLASH POINT 300 °F 150 °C	method used ASTM D-92	FLAMMABLE LIMITS →	LEL	UEL
EXTINGUISHING MEDIA CO ₂ , Dry chemical, foam, water fog and sand/earth.			N/A	N/A
SPECIAL FIRE FIGHTING PROCEDURES Wear self-contained breathing apparatus.				
UNUSUAL FIRE AND EXPLOSION HAZARDS None				

SECTION V-HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE — Conditions to Avoid May cause reversible eye and skin irritation.	THRESHOLD LIMIT VALUE \Rightarrow 5Mg/M ₃ Mist PERMISSIBLE EXPOSURE LIM: \Rightarrow
Prolonged skin exposure may cause dermatitis or oil acne. Ingestion may cause cramps and diarrhea.	
PRIMARY ROUTES OF ENTRY Inhalation <input checked="" type="checkbox"/> Skin Contact <input type="checkbox"/> Other (specify)	
EMERGENCY AND FIRST AID PROCEDURES Eyes - Flush with large amounts of water for 15 minutes, if irritation persists, call a physician. Skin - Wash with soap and water, if swallowed call a physician.	

SECTION VI-REACTIVITY DATA

	UNSTABLE		CONDITIONS TO AVOID
STABILITY	STABLE	XXXXXX	
INCOMPATIBILITY (materials to avoid): Strong oxidizing agents such as Chromic Acid, Hydrogen Peroxide, Bromide, and Oxygen			
HAZARDOUS DECOMPOSITION PRODUCTS: Upon combustion, CO ₂ and CO are generated.			
	MAY OCCUR		CONDITIONS TO AVOID
HAZARDOUS POLYMERIZATION	WILL NOT OCCUR	XXXXXX	

SECTION VII-SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Stop leak, dike up large spills, use inert absorbent material.	
WASTE DISPOSAL METHOD In accordance with local, state and federal regulation.	
CERCLA (Superfund) REPORTABLE QUANTITY (in lbs)	N/A
RCRA HAZARDOUS WASTE NO. (40 CFR 261.33)	N/A
VOLATILE ORGANIC COMPOUND (VOC) (as packaged, minus water)	N/A
<input checked="" type="checkbox"/> Theoretical 7.59 lb/gal @15.6°C	<input checked="" type="checkbox"/> Analytical 7.59 lb/gal @15.6°C

SECTION VIII-SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type) N/A			
VENTILATION	LOCAL EXHAUST (Specify Rate)	N/A	SPECIAL N/A
	MECHANICAL (General) (Specify Rate)	N/A	OTHER N/A
PROTECTIVE GLOVES Oil resistant rubber.		EYE PROTECTION Chemical splash goggles.	
OTHER PROTECTIVE EQUIPMENT Rubber Apron.			

SECTION IX-SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Avoid exposure to heat and flame, protect against eye and skin contact. Wash thoroughly after handling.	
OTHER PRECAUTIONS	

Seller agrees not to assert any claim (other than a claim for patent infringement) against Virginia KMP Corp. for any use or disclosure of any technical data or information disclosed in connection with this questionnaire.

PLEASE COMPLETE QUESTIONNAIRE AND RETURN TO:	Name (print) J. Kenneth Novak
	Signature <i>J. Kenneth Novak</i>
	Title Safety Engineer
	Date <input checked="" type="checkbox"/> August 24, 1988