

## MATERIAL SAFETY DATA

VIRGINIA CHEMICALS

THE WEST MOMENTS AND SEPTEMBERS OF SEP

SECTION 1. IDENTIFICATION OF PRODUCT 1.1 MANUFACTURER'S NAME 12 EMERGENCY TELEPHONE NUMBER 804-484-5000 Virginia Chemicals Inc. TI ADDRESS (INCLUDE STREET NUMBER AND ZIP CODE) 3340 West Norfolk Road, Portsmouth, Virginia 23703 LABEL CODE SUNISO 3GS Refrigeration Oil 29-148-981 1.5 CHEMICAL NAME OR DESCRIPTION Napthenic Base Oil CAS #64742183 1.6 DOT HAZARO CLASSIFICATION (REGULATED ARTICLES) 17 DOT SHIPPING NAME (REGULATED ARTICLES) **SECTION 2. PHYSICAL DATA** 2.1 APPEARANCE AND ODOR Colorless liquid - mild oil odor 2.2 SPECIFIC GRAVITY (WATER + 1) 23 SOLIOS CONTENT IPERCENT BY WEIGHT) (LIQUIDS ONLY) 0.92 ISDLUTIONS DISPERSIONS OR PASTES ONLY) n.a. 2.4 SOLUBILITY IN WATER (PERCENT BY WEIGHT) 2.5 GOILING POINT (DEGREES \*F) 80 ppm High, wide range (SPECIFY TEMPERATURE IN DEGREES "FI INON-AQUEOUS LIQUIDS ONLY 2.6 VAPOR PRESSURE (MM OF HG AT "F) 27 VAPOR DENSITY (AIR = 1) under .0001 10 (NON-AQUEOUS LIQUIDS ONLY) INON-AQUEOUS LIQUIDS ONLY! 2.8 EVAPORATION RATE IBUTYL ACETATE & INC. 29 pH (AQUEOUS LIQUIDS ONLY) INON-AQUEOUS LIQUIDS ONLYS 1000x slower n.a. SECTION 3. FIRE AND EXPLOSION HAZARD DATA 330°F Min. COC 3.1 FLASH POINT (SPECIFY METHOD) 3.2 FLAMMABLE LIMITS (VAPOR IN AIR) LOWER UPPER (DEGREES \*F) Autoignition Temp. 680 F EST (PERCENT BY VOLUME) Not determined not deter 33 FIRE-EXTINGUISHING MEDIA CO2, dry chemical, water fog, chemical foam 34 SPECIAL FIRE-FIGHTING PROCEDURES Wear self-contained breathing gear when fire fighting in confined spaces 3.5 UNUSUAL FIRE AND EXPLOSION MAZARDS **SECTION 4. REACTIVITY DATA** 4.1 STABILITY INCLUDING UNSTABLE CONDITIONS TO AVOID **HAZARDOUS POLYMERIZATIONS** STABLE INCOMPATIBILITY INATERIALS TO AVOIDI INCOMPATIBLE WITH STRONG OXIC ers MAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide and asphyx S **:TION 5. SPILL OR LEAK PROCEDURES** 5 T STEPS TO BE TAKEN IN CASE MATERIAL IS RELI IR SPILLED Same as for other mineral o Soak up with absorbent material.

52 WASTE DISPOSAL METHOD

In accordance with local, stat .... Federal laws and regulations governing disposal of oily waster



SECTION 6. HEA	ALTH HAZARD	DATA
EFFECTS OF CONTACT WITH EYES  No eye effects expected.		
62 EFFECTS OF CONTACT WITH SKIN (LOCAL AND SYSTEMIC)		
No skin effects expected.		
63 EFFECTS OF INHALATION (LOCAL AND SYSTEMIC)		
None expected.	•	,
None normally required. If swallowed, induce water. If any irritation develops after eye conpersonal cleanliness should be observed.	vomiting. Fluntact, a physic	sh area of contact with plenty of ian should be consulted. Reasonable
55 MEDICAL EXAMINATIONS		
SECTION 7. SPECIAL P	PROTECTION I	NFORMATION
7.1 RESPIRATORY PROTECTION ISPECIFY TYPE)		
NODE 72 GLOVES ISPECIFY MATERIAL OF CONSTRUCTIONS	7.1 EYE PROTECTION	N (SPECIFY TYPE)
None 74 OTHER PROTECTIVE EQUIPMENT (CAP. APRON, COVERALLS, BOOTS, EYEWAY	None Sh fountain, Safety :	SHOWER, ETC.)
75 PERSONAL HYGIENE Employees handling should observe reasonable 76 ENGINEERING CONTROL OF HEALTH HAZARDS (VENTILATION ETC.) Ventilate as needed to maintain compliance w	ith workplace	environmental exposure limit.
SECTION 8. SUBSTANCES FOR	WHICH STAND	
SUBSTANCE	PERCENT	ISPECIFY UNITS SUCH AS PPM MG PER CUBIC METER MPPCF ET
81 USE THIS SPACE WHEN THE PRODUCT IS ESSENTIALLY A SINGLE CHEMICAL COMPOUND OR ELEMENT AS IDENTIFIED IN SECTION 15	_	8 Hr. Time Weighted Permissible exposure 5.0 mg/m <sup>2</sup> . Government regulation.
Note: Practically non-toxic. Oral LD 50 estinates	nated in excess	
• .		
SECTION 9. SPE	ECIAL PRECAU	TIONS
81 PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE.		
As for other mineral oils. NFPA III B Storage	requirements	•
92 OTHER PEFFANTIONS		