

SAFETY DATA SHEET

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PRODUCT NAME: PROATEQ™ Polarized Refrigerant Oil Additive (PROA)

SECTION I - IDENTIFICATION			
ADDRESS	EMERGENCY TELEPHONE NUMBERS	RECOMMENDED USE	DATE PREPARED
EnSaTEQ, Inc. 26 Venson Street Woodville, AL 35776	Information: (256) 783-3170 Chem Trec: (800) 424-9300	Intended for use as an energy conservation product for air conditioning and refrigeration equipment	October 26, 2015

SECTION II – HAZARDS IDENTIFICATION	
This chemical is classified as non-hazardous.	Should be treated the same as any refrigeration oil.
Carcinogenic ingredients OSHA – NTP – IARC:	None
SARA Title III Section 313 ingredients:	None
HMIS RATINGS	Health: 1 Fire: 1 Reactivity: 0 Personal Protection: B

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS	
A proprietary synergistic blend of carboxylic acid esters, aminotriazoles and polymeric alkanolamines reacted in a naphthenic petroleum hydrocarbon base stock.	
The specific chemical identity and/or exact percentages of composition have been withheld as a Trade Secret.	
CAS NUMBER	64742-44-5

SECTION IV – FIRST-AID MEASURES	
ROUTES OF ENTRY	Primary entry through skin. Secondary entry through eyes and nose.
HEALTH HAZARDS (ACUTE AND CHRONIC)	Not expected to cause a severe emergency hazard. <ul style="list-style-type: none">• Eyes: Tests on similar materials suggest that no eye effect is to be expected.• Skin: Tests on similar materials indicate that no significant adverse health effects are expected to occur with short-term exposure.• Ingestion/Inhalation: Tests on similar materials indicate no acute effects expected.
SIGNS AND SYMPTOMS	Prolonged and/or real exposure to this material may produce skin inflammation or minor respiratory and eye irritation. Material is not classified a primary irritant according to CFR 16:1500.

SECTION V – FIRE FITING MEASURES			
FLASH POINT	360 Degrees F	UEL	N/D
FLAMMABLE LIMITS	IIIB	LEL	N/D
EXTINGUISHING MEDIA	Dry Chem, Carbon Dioxide, Water Fog, and Foam		
SPECIAL FIRE FIGHTING PROCEDURES: Use water to cool containers exposed to flames. Do not enter enclosed work-space without self-contained breathing apparatus (SCBA) and protective clothing. Treat fire as you would a lubricating oil fire.			
UNUSUAL FIRE FIGHTING PROCEDURES: Slightly combustible liquid, OSHA – NFPA Class IIIB. If heated above its flash point, product will release flammable vapors, which can burn in open air or be explosive in confined spaces if exposed to ignition source.			

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SECTION VI – ACCIDENTAL RELEASE MEASURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	<ul style="list-style-type: none"> • Large spills: Stop leak at source. Dike and contain material. Transfer material to salvage vessel for disposal. Cap drain sources. • Small spills: Take up with inert absorbent material and dispose of according to all applicable regulations. • Ignition Sources: Remove all ignition sources • Personnel Protection: Use safety glasses and neoprene gloves.

SECTION VII – HANDLING AND STORAGE	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE	Keep material away from open flames, sources of ignition, extreme heat, and oxidizing agents. Keep containers closed when not in use. Store at temperatures below 110 degrees F.
OTHER PRECAUTIONS	Wash hands with soap and water before eating, drinking, smoking, or use of toilet facilities.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION							
VENTILATION REQUIREMENTS	Ventilation should be designed in accordance with good engineering practices.						
PERSONAL PROTECTIVE EQUIPMENT	<ul style="list-style-type: none"> • Eye protection: Splash proof goggles or face shield. • Dermal protection: Neoprene or other chemically impervious gloves. 						
EXPOSURE LIMITS	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">OSHA Mist</td> <td style="width: 30%;">5 mg/M³</td> <td style="width: 30%;">8 Hrs</td> </tr> <tr> <td>ACGIH Mist</td> <td>5 mg/M³</td> <td>6 Hrs</td> </tr> </table>	OSHA Mist	5 mg/M ³	8 Hrs	ACGIH Mist	5 mg/M ³	6 Hrs
OSHA Mist	5 mg/M ³	8 Hrs					
ACGIH Mist	5 mg/M ³	6 Hrs					

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES			
BOILING POINT	>250 Degrees F	SPECIFIC GRAVITY (H₂O =1)	0.9
VAPOR PRESSURE (mm Hg)	<.0001 mm Hg	MELTING POINT	N/A
VAPOR DENSITY (AIR = 1)	>5	EVAPORATION RATE (BUTYL ACETATE = 1)	>5
SOLUBILITY IN WATER	Negligible		
OTHER INFORMATION	Viscosity = 160 SUS AT 100 Degrees F		

SECTION X– STABILITY AND REACTIVITY	
STABILITY	Stable
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS	Combustion may produce carbon monoxide and other asphyxiants.
HAZARDOUS POLYMERIZATION	Will not occur.
INCOMPATIBILITY	Acids, strong oxidizers, strong bases.
APPEARANCE AND ODOR	Clear amber colored liquid with bland petroleum oil odor

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SECTION XI – TOXICOLOGY INFORMATION	
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE	None noted.
EMERGENCY AND FIRST AID PROCEDURES	<ul style="list-style-type: none"> Eyes: Wash with copious amounts of water for at least 15 minutes. Consult a physician. Skin: Wash exposed area with soap and water. Launder soiled clothing before reuse. Seek medical assistance if rash develops. Inhalation: Not likely to occur. If exposed to volatile decomposition products above 220 degrees C, remove to fresh air and give oxygen. Ingestion: Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of material into lungs.
SIGNS AND SYMPTOMS	Prolonged and/or real exposure to this material may produce skin inflammation or minor respiratory and eye irritation. Material is not classified a primary irritant according to CFR 16:1500.
Carcinogenic ingredients OSHA – NTP – IARC	None
SARA Title III Section 313 ingredients:	None

SECTION XII – ECOLOGICAL INFORMATION	
Bioaccumulation Potential	None
Biodegradation Potential	None
Other Adverse Effects	None Noted
Photochemical Ozone Creation Potential	None

SECTION XIII – DISPOSAL CONSIDERATIONS	
WASTE DISPOSAL METHOD	If reclamation is not possible, dispose of material in accordance with federal, state, and local regulations. Do not flush to drain/storm sewer.

SECTION XIV – TRANSPORTATION INFORMATION	
Transportation	DOT information Proper shipping name: Not required by DOT Hazard Class: Not applicable DOT ID Number: Not applicable DOT shipping label: Not regulated by DOT

SECTION XV – REGULATORY INFORMATION	
Regulatory Restrictions	None

SECTION XVI – OTHER INFORMATION	
ADDITIONAL MANUFACTURER WARNINGS	Store only in closed, properly labeled containers. Do not use welding torch to open containers. Use in well ventilated area.
OTHER PRECAUTIONS AND COMMENTS	RCRA Status: Not subject to the 40 CFR part 268.3 land ban on disposal of certain hazardous wastes. CERCLA Reportable Quantity: Not reportable under 40 CFR part 302.4

Information contained herein is correct and accurate to the best of EnSaTEQ, Inc.'s knowledge. However, EnSaTEQ extends no warranties as to the completeness of the information contained herein and assumes no responsibilities regarding the suitability of this information for the user's intended purpose or for the consequence of its use. Purchaser assumes all risks of use, application, and handling.

SDS CONCLUDED