

## **PRO X HD ELC ANTIFREEZE**

SAFETY DATA SHEET / MATERIAL SAFETY DATA SHEET

## SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION Antifreeze/Coolant (50/50) Extended Life Global Plus(HOAT) with Dye Date: 05.01.2015 Product/Chemical Name: **Product Description:** Ethylene Glycol Based Antifreeze **Chemical Family:** Inhibited Ethylene Glycol and Water Solution Mixture CAS Registry: Senergy Petroleum, 622 S 56<sup>th</sup> Ave, Phoenix, AZ 85043 **Distributed By: Industrial Recycling Solutions** Manufacturer: Phone: 623-979-1192 Fax: 623-979-9058 2610 West Holly Street #C Phoenix, AZ 85009-2600 Professional Emergency Resource Services Domestic Shipments: 800-633-8253 CAS No **EXPOSURE LIMIT** INGREDIENT WT. RANGE % \*1,2-ethanediol (Ethylene Glycol) 107-21-1 50ppm Ceiling-ACGIH 51.0-51.5 Sodium Nitrite 10-15% 7632-00-0 Not applicable **Organic Acid Salts** 2-5% Proprietary Not applicable $2.0 \text{ mg/m}^3$ Potassium Hydroxide 2-5% 1310-58-3 .05-2% **Proprietary Additives** Proprietary Not applicable Not applicable <1% Not applicable Dye Not applicable Water Balance 7732-18-5 \*Hazardous according to OSHA (1910.1200) or one or more state Right-to-Know lists. SECTION 3 – HAZARDOUS IDENTIFICATION Health: 2 Flammability: 1 **Reactivity:** 0 Special: None 0 = minimal 1 = slight 2=moderate 3= serious 4= severe GSH07 GSH08 Route(s) of Entry Inhalation: Yes Yes Skin: Yes Ingestion: Eyes: Yes Target Organs: Kidneys and Liver Effects of overexposure: Acute: Eyes: May cause minimal irritation, experienced as temporary discomfort.

Effects of overexposure		Brief contact is not irritating. Prolonged contact, as with clothing wetted			
(con't) Acute:		with material may cause defatting of skin or irritation, seen as local redness with possible mild discomfort. Other than the potential skin			
Acute.		irritation effects noted above, acute (short term) adverse effects are not			
		expected from brief skin contact.			
		Vapors or mist, in excess of permissible concentrations, or in unusually			
		high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause			
		irritation of the nose and throat, headache, nausea, and drowsiness.			
		Prolonged or repeated overexposure may result in the absorption of			
		potentially harmful amounts of material. Contains ethylene glycol and/or diethylene glycol, which are toxic when			
	-	swallowed. A lethal dose for an adult is 1-2 ml per kilogram, or about 4			
		ounces (one-half cup). Symptoms include headache, weakness,			
		confusion, dizziness, staggering, slurred speech, loss of concentration, faintness, nausea and vomiting, increased heart rate, decreased blood			
		pressure, difficulty breathing and seeing, pulmonary edema,			
		unconsciousness, convulsions, collapse and coma. Symptoms may be			
		delayed. Decreased urine output and kidney failure may also occur. Severe poisoning may cause death. Aspiration may occur during			
	:	swallowing or vomiting, resulting in lung damage.			
Sensitization Properties: Signs and Symptoms of	Unknown				
Exposure:	See above "Effects of Overexposure."				
Medical Conditions Generally Aggravated by Long-Term	Develop				
Exposure: Chronic Effects:	Repeated overexposure may aggravate existing kidney disease. Repeated ingestion may cause kidney damage				
Carcinogenicity					
NTP:	Not listed				
IARC Monographs:	Not listed				
OSHA Regulations: ACGIH	Not listed Not listed				
	SECTION 4 – FIRST AID MEASURES				
Emergency and First Aid Procedures:	Eye contact:	Immediately flush with large quantities of water for at least 15 minutes and			
	Skin contact:	Remove excess with cloth or paper towel. Wash thoroughly with soap and water. If irritation persists, get medical attention.			
	Ingestion:	Immediately contact a physician, poison control center or emergency treatment center. DO NOT induce vomiting. Aspiration Hazard: Product may be inhaled into lungs if vomited.			
	Inhalation:	Remove to fresh air. Restore and/or support breathing as required. Keep victim warm and at rest.			
Note to Physicians:	Treat symp	tomatically			
Special Precautions/Procedure	es: None known	1			

	Section 5 – Fire-Fighting Measur	RES	
Unusual Fire Fighting procedures:	None known		
Flash Point:	None detected	NFPA	
Flash Point Method:	Not applicable	$\wedge$	
Burning Rate:	Not applicable		
Auto ignition Temperature:	Does not apply		
Flammable limits in air (% by volume)			
LEL:	Not determined	$\sim$	
UEL:	Not determined		
Flammability Classification:	Does not burn, but can emit fumes		
Extinguishing Media:	Use water spray, dry chemical, foar	m or carbon dioxide to extinguish.	
Unusual Fire or Explosion Hazards: Fire-Fighting Instructions;	None known According to the National Fire Prote	ection Association Guide, use water spray,	
	dry chemical, foam or carbon dioxic	de. Water or foam may cause frothing. pors and to provide protection for person	
Fire-Fighting Equipment:	Because fire may produce toxic the	ermal decomposition products, wear a self- BA) with a full facepiece operated in ure mode.	
Unusual Fire Fighting procedures:	Not required		
Other Information:		o heat or combustion: Carbon Monoxide	
	and Carbon Dioxide may be formed	5	
	ION 6 – ACCIDENTAL RELEASE MEAS		
Spill/Leak Procedures: Regulatory Requirements:	equipment, including appropriate respossible. Wipe up or absorb on suita into sewers and waterways. Avoid c If more than 10,539 pounds of produ	able material and shovel up. Prevent entry ontact with skin, eyes or clothing. uct is spilled, then report spill according to requirements, unless product qualifies for	
	Section 7 – Handling and Storag	θE	
Handling Precautions	Minimum feasible handling temperat	tures should be maintained.	
Storage Requirements:	Periods of exposure to high temperature should be minimized. Water		
	contamination should be avoided.	ene Glycol has produced birth defects in	
	rodents. Do not store near food.	ene diycol has produced birth defects in	
SECTION 8	- EXPOSURE CONTROLS/PERSONAL	PROTECTION	
Ventilation:	Normal to maintain exposure below T		
Permissible Concentrations in Air:		; 50 ppm (125 mg/cubic meter) ceiling limit	
Respiratory Protection:	Supplied air respiratory protection for tanks, vessels, or other confined space	cleaning large spills or upon entry into ces. Use a NIOSH approved organic vapor	
Eye Protection:	and gas respirator with mist filter. Chemical type goggles or face shield	optional	
Protective Clothing/Equipment:		oots, aprons, and gauntlets to prevent	
		Vear protective eyeglasses or chemical	
<b></b>	safety goggles.		
Work and Hygienic Practices:		reasonable personal cleanliness; this	
	and laundering or dry cleaning soiled	as several times daily with soap and water, work clothing at least weekly.	
Safety Stations:		safety/quick-drench showers, and washing	
	facilities available in work area.	· · · · · · · · · · · · · · · · · · ·	
Contaminated Equipment:	Separate contaminated work clothes	from street clothes. Launder before reuse.	
•••	Remove this material from your shoe		
	equipment.		

Comments:	Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.
Section	DN 9 – PHYSICAL AND CHEMICAL PROPERTIES
Appearance and odor:	Clear liquid with a mild odor (may contain dye in one of several colors).
Boiling Point (760 mm Hg):	325⁰F
Freezing/Melting Point:	-34ºF
Specific Gravity (water =1):	1.110-1.125
Vapor Density (air =1):	1.8
Percent Volatile by Volume:	NIL National
Evaporation Rate (butyl acetate =1):	Not determined
Solubility in Water (% by wt): Vapor Pressure (at 20ºC):	Soluble
pH:	18mm Hg. 9.8-10.6
Viscosity SUS @ 100ºF	Less than 20cst
	ECTION 10 – STABILITY AND REACTIVITY
Stability: Polymerization:	Stable Does not occur
Chemical Incompatibilities:	
Conditions to Avoid:	Strong oxidizers High temperatures above 413ºC (775ºF) (product can decompose)
Hazardous decomposition products:	Carbon dioxide, carbon monoxide
nazardous decomposition products.	
SE	CTION 11 – TOXICOLOGICAL INFORMATION
Eye Effects:	Believed to cause slight eye irritation.
Skin Effects:	Can be irritating to skin upon prolonged contact
Acute Inhalation Effects:	Drowsiness, narcosis, and unconsciousness possible upon exposure to high
	concentrations in poorly ventilated confined spaces.
Acute Oral Effects:	concentrations in poorly ventilated confined spaces. Can cause irritation to mouth, throat and stomach
Acute Oral Effects: Chronic Effects:	Can cause irritation to mouth, throat and stomach Liver and kidney damage in a 2 year rat feeding study using 1-2% Ethylene
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Chronic Effects:	Can cause irritation to mouth, throat and stomach Liver and kidney damage in a 2 year rat feeding study using 1-2% Ethylene Glycol. Oral administration of very high doses of Ethylene Glycol produced birth defects in laboratory animals.
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SECTION 13 – DISPOSAL CONSIDERATIONS				
Waste Disposal Method: Disposal Regulatory Requirements: Container Cleaning and Disposal:	Dispose of waste in accordance with Federal, State and Local laws. Under RCRA, it is the responsibility of the user of products to determine, at the time of disposal, whether product meets RCRA criteria for hazardous waste. This is because product uses transformations, mixture, processes, etc., may render the resulting material hazardous (see waste classification) Containers should be cleaned of residual product before disposal, and disposed of in accordance with all applicable laws and regulations.			
S	ECTION 14 – TRANSPORT INFORMATION			
DOT Shipping Name: Shipping Symbols: Hazard Class: DOT Identification No.: Packing Group: Label: Special Provisions (172.102):	Not applicable Not applicable Not applicable Not regulated unless shipping container holds at least 10,539 pounds. Not applicable Not applicable Not applicable			
Packaging Authorizations a) Exceptions: b) Non-bulk Packaging: c) Bulk Packaging:	Not applicable Not applicable Not applicable			
Quantity Limitations a) Passenger, Aircraft, or Railcar: b) Cargo Aircraft Only:	Not applicable Not applicable			
Vessel Stowage Requirements a) Vessel Stowage: b) Other:	Not applicable Not applicable			
Se	CTION 15 – REGULATORY INFORMATION			
EPA Regulations RCRA Hazardous Waste Number and R Hazardous Waste Classification:	CRA Unused product is not classified as a hazardous waste by RCRA criteria			
CERCLA Hazardous Substance and CE Reportable Quantity:	RCLA Does not contain any ingredients listed as a CERCLA hazardous substance.			
SARA Toxic Chemical and SARA EHS:	Contains following substance which is listed in Title III: Ethylene Glycol. SARA 313 Information: SARA Hazard Category: An immediate health hazard A delayed health hazard			
OSHA Regulations:				
State Regulations: Other:	All components listed on both TSCA (USA) and DSL			

## SECTION 16 – OTHER INFORMATION

Prepared By:

Industrial Recycling Solutions Inc.

Additional Hazard Rating Systems: None Disclaimer: THE INFORMATION GIVEN HEREIN IS GIVEN IN GOOD FAITH AND FROM SOURCES WE BELIEVE RELIABLE. BUT NO WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS IS MADE.

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