



# PRO X HD ELC 50/50 A/F RED

## SAFETY DATA SHEET / MATERIAL SAFETY DATA SHEET

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product/Chemical Name:** Antifreeze/Coolant (50/50) Extended Life Global Plus(HOAT) with Dye Date: 05.01.2015  
**Product Description:** Ethylene Glycol Based Antifreeze  
**Chemical Family:** Inhibited Ethylene Glycol and Water Solution  
**CAS Registry:** Mixture  
**Distributed By:** **Senergy Petroleum**, 622 S 56<sup>th</sup> Ave, Phoenix, AZ 85043  
**Manufacturer:** **Industrial Recycling Solutions**  
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**

<u>INGREDIENT</u>	<u>WT. RANGE %</u>	<u>CAS No</u>	<u>EXPOSURE LIMIT</u>
*1,2-ethanediol (Ethylene Glycol)	51.0-51.5	107-21-1	50ppm Ceiling-ACGIH
Sodium Nitrite	10-15%	7632-00-0	Not applicable
Organic Acid Salts	2-5%	Proprietary	Not applicable
Potassium Hydroxide	2-5%	1310-58-3	2.0 mg/m <sup>3</sup>
Proprietary Additives	.05-2%	Proprietary	Not applicable
Dye	<1%	Not applicable	Not applicable
Water	Balance	7732-18-5	Not applicable

\*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



**Route(s) of Entry**  
**Inhalation:** Yes  
**Skin:** Yes  
**Ingestion:** Yes  
**Eyes:** Yes  
**Target Organs:** Kidneys and Liver

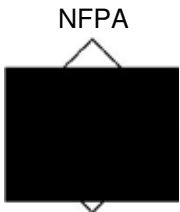
**Effects of overexposure:**  
**Acute:** Eyes: May cause minimal irritation, experienced as temporary discomfort.

<b>Effects of overexposure (con't)</b>	<b>Acute:</b>	<p><b>Skin:</b> Brief contact is not irritating. Prolonged contact, as with clothing wetted with material may cause defatting of skin or irritation, seen as local redness with possible mild discomfort. Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact.</p> <p><b>Inhalation:</b> 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.</p> <p><b>Ingestion:</b> 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.</p>
	<b>Sensitization Properties:</b>	Unknown
	<b>Signs and Symptoms of Exposure:</b>	See above "Effects of Overexposure."
	<b>Medical Conditions Generally Aggravated by Long-Term Exposure:</b>	Repeated overexposure may aggravate existing kidney disease.
<b>Chronic Effects:</b>	Repeated ingestion may cause kidney damage	
<b>Carcinogenicity</b>		
<b>NTP:</b>	Not listed	
<b>IARC Monographs:</b>	Not listed	
<b>OSHA Regulations:</b>	Not listed	
<b>ACGIH</b>	Not listed	

#### SECTION 4 – FIRST AID MEASURES

<b>Emergency and First Aid Procedures:</b>	<b>Eye contact:</b>	Immediately flush with large quantities of water for at least 15 minutes and
	<b>Skin contact:</b>	Remove excess with cloth or paper towel. Wash thoroughly with soap and water. If irritation persists, get medical attention.
	<b>Ingestion:</b>	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.
	<b>Inhalation:</b>	Remove to fresh air. Restore and/or support breathing as required. Keep victim warm and at rest.
<b>Note to Physicians:</b>	Treat symptomatically	
<b>Special Precautions/Procedures:</b>	None known	

## SECTION 5 – FIRE-FIGHTING MEASURES

<b>Unusual Fire Fighting procedures:</b>	None known	
<b>Flash Point:</b>	None detected	
<b>Flash Point Method:</b>	Not applicable	
<b>Burning Rate:</b>	Not applicable	
<b>Auto ignition Temperature:</b>	Does not apply	
<b>Flammable limits in air (% by volume):</b>		
<b>LEL:</b>	Not determined	
<b>UEL:</b>	Not determined	
<b>Flammability Classification:</b>	Does not burn, but can emit fumes in a fire.	
<b>Extinguishing Media:</b>	Use water spray, dry chemical, foam or carbon dioxide to extinguish.	
<b>Unusual Fire or Explosion Hazards:</b>	None known	
<b>Fire-Fighting Instructions:</b>	According to the National Fire Protection Association Guide, use water spray, dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Use water spray to disperse the vapors and to provide protection for person attempting to stop the leak.	
<b>Fire-Fighting Equipment:</b>	Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.	
<b>Unusual Fire Fighting procedures:</b>	Not required	
<b>Other Information:</b>	Products evolved when subjected to heat or combustion: Carbon Monoxide and Carbon Dioxide may be formed on burning in limited air supply.	

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>Spill/Leak Procedures:</b>	Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.
<b>Regulatory Requirements:</b>	If more than 10,539 pounds of product is spilled, then report spill according to SARA 304 and/or CERCLA 102(a) requirements, unless product qualifies for petroleum exemption (CERCLA Section 101 (14)).

## SECTION 7 – HANDLING AND STORAGE

<b>Handling Precautions</b>	Minimum feasible handling temperatures should be maintained.
<b>Storage Requirements:</b>	Periods of exposure to high temperature should be minimized. Water contamination should be avoided. ETHYLENE GLYCOL BASE – Ethylene Glycol has produced birth defects in rodents. Do not store near food.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Ventilation:</b>	Normal to maintain exposure below TLV
<b>Permissible Concentrations in Air:</b>	10mg/cubic meter for particulate mist; 50 ppm (125 mg/cubic meter) ceiling limit for Ethylene Glycol (ACGIH 1984-1985)
<b>Respiratory Protection:</b>	Supplied air respiratory protection for cleaning large spills or upon entry into tanks, vessels, or other confined spaces. Use a NIOSH approved organic vapor and gas respirator with mist filter.
<b>Eye Protection:</b>	Chemical type goggles or face shield optional.
<b>Protective Clothing/Equipment:</b>	Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles.
<b>Work and Hygienic Practices:</b>	Exposed employees should exercise reasonable personal cleanliness; this includes cleansing exposed skin areas several times daily with soap and water, and laundering or dry cleaning soiled work clothing at least weekly.
<b>Safety Stations:</b>	Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

<b>Contaminated Equipment:</b>	Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.
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**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 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):** 325°F  
**Freezing/Melting Point:** -34°F  
**Specific Gravity (water =1):** 1.110-1.125  
**Vapor Density (air =1):** 1.8  
**Percent Volatile by Volume:** NIL  
**Evaporation Rate (butyl acetate =1):** Not determined  
**Solubility in Water (% by wt):** Soluble  
**Vapor Pressure (at 20°C):** 18mm Hg.  
**pH:** 9.8-10.6  
**Viscosity SUS @ 100°F** Less than 20cst

### SECTION 10 – STABILITY AND REACTIVITY

**Stability:** Stable  
**Polymerization:** Does not occur  
**Chemical Incompatibilities:** Strong oxidizers  
**Conditions to Avoid:** High temperatures above 413°C (775°F) (product can decompose)  
**Hazardous decomposition products:** Carbon dioxide, carbon monoxide

### SECTION 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:** Can cause irritation to mouth, throat and stomach  
**Chronic Effects:** 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.  
**Carcinogenicity:** Neither product nor its ingredients are listed by IARC, NTD or OSHA  
**Mutagenicity:** Not mutagenic  
**Teratogenicity:** Not Teratogenic

### SECTION 12 – ECOLOGICAL INFORMATION

**Ecotoxicity:** Oral: Believed to be 4.7-8.5 g/kg (rat); moderately toxic  
Inhalation: Not determined.  
Dermal: Believed to be 1-3 g/kg (rabbit); slightly toxic  
Other: Not determined.  
Irritation Index/Estimation of Irritation (Species)  
Skin: Believed to be 0.5-1.8/8.0 (rabbit); slightly irritating  
Eyes: Believed to be 15-25/110 (rabbit); slightly irritating  
**Soil Absorption/Mobility:** Not determined

### SECTION 13 – DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method:</b>	Dispose of waste in accordance with Federal, State and Local laws.
<b>Disposal Regulatory Requirements:</b>	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)
<b>Container Cleaning and Disposal:</b>	Containers should be cleaned of residual product before disposal, and disposed of in accordance with all applicable laws and regulations.

### SECTION 14 – TRANSPORT INFORMATION

<b>DOT Shipping Name:</b>	Not applicable
<b>Shipping Symbols:</b>	Not applicable
<b>Hazard Class:</b>	Not applicable
<b>DOT Identification No.:</b>	Not regulated unless shipping container holds at least 10,539 pounds.
<b>Packing Group:</b>	Not applicable
<b>Label:</b>	Not applicable
<b>Special Provisions (172.102):</b>	Not applicable
<b>Packaging Authorizations</b>	
a) Exceptions:	Not applicable
b) Non-bulk Packaging:	Not applicable
c) Bulk Packaging:	Not applicable
<b>Quantity Limitations</b>	
a) Passenger, Aircraft, or Railcar:	Not applicable
b) Cargo Aircraft Only:	Not applicable
<b>Vessel Stowage Requirements</b>	
a) Vessel Stowage:	Not applicable
b) Other:	Not applicable

### SECTION 15 – REGULATORY INFORMATION

<b>EPA Regulations</b>	
RCRA Hazardous Waste Number and RCRA Hazardous Waste Classification:	Unused product is not classified as a hazardous waste by RCRA criteria
CERCLA Hazardous Substance and CERCLA Reportable Quantity:	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
<b>OSHA Regulations:</b>	
<b>State Regulations:</b>	
<b>Other:</b>	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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