

# PRO X HD 50/50 A/F GREEN

# SAFETY DATA SHEET / MATERIAL SAFETY DATA SHEET

# SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product/Chemical Name:** Antifreeze/Coolant (50/50) Conventional with Dye

**Product Description:** Ethylene Glycol Based Antifreeze

**Chemical Family:** Inhibited Ethylene Glycol and Water Solution

CAS Registry: Mixture

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 International Shipments: 801-629-0667

## SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

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

<sup>\*</sup>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





Date: 05.01.2015

GSH07 GSH08

Route(s) of Entry

Inhalation:YesSkin:YesIngestion:YesEyes:Yes

Target Organs: Kidneys and Liver

Effects of overexposure:

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

Effects of overexposure

(con't)

Acute:

Skin:

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.

Inhalation: 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.

Ingestion: 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

**Exposure:** 

Unknown

See above "Effects of Overexposure."

Medical Conditions Generally Aggravated by Long-Term

Aggravated by Long-

**Exposure:** 

Repeated overexposure may aggravate existing kidney disease.

Repeated ingestion may cause kidney damage

Carcinogenicity

Chronic Effects:

NTP: Not listed IARC Monographs: Not listed OSHA Regulations: Not listed ACGIH 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 symptomatically

Special Precautions/Procedures: None known

## **SECTION 5 – FIRE-FIGHTING MEASURES**

**Unusual Fire Fighting procedures:** None known Flash Point: None detected Flash Point Method: Not applicable **Burning Rate:** Not applicable Auto ignition Temperature: Does not apply

Flammable limits in air (% by volume):

LEL: Not determined **UEL:** Not determined

Flammability Classification: Does not burn, but can emit fumes in a fire.

**Extinguishing Media:** Use water spray, dry chemical, foam or carbon dioxide to extinguish.

Not required

**Unusual Fire or Explosion Hazards:** None known

Fire-Fighting Instructions; 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

**NFPA** 

attempting to stop the leak.

Because fire may produce toxic thermal decomposition products, wear a self-Fire-Fighting Equipment:

contained breathing apparatus (SCBA) with a full facepiece operated in

pressure-demand or positive-pressure mode.

**Unusual Fire Fighting procedures:** 

Other Information:

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

Spill/Leak Procedures: 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.

**Regulatory Requirements:** 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

**Handling Precautions** Minimum feasible handling temperatures should be maintained.

Storage Requirements: 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

Ventilation: Normal to maintain exposure below TLV

Permissible Concentrations in Air: 10mg/cubic meter for particulate mist; 50 ppm (125 mg/cubic meter) ceiling limit

for Ethylene Glycol (ACGIH 1984-1985)

**Respiratory Protection:** 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.

**Eve Protection:** Chemical type goggles or face shield optional.

**Protective Clothing/Equipment:** Wear chemically protective gloves, boots, aprons, and gauntlets to prevent

prolonged or repeated skin contact. Wear protective eyeglasses or chemical

safety goggles.

Work and Hygienic Practices: 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.

Safety Stations: Make emergency eyewash 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 shoes and clean personal protective

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 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):

Vapor Pressure (at 20°C):

pH:

9.8-10.6

Viscosity SUS @ 100°F

Soluble

18mm Hg.

9.8-10.6

Less than 20cst

# SECTION 10 - STABILITY AND REACTIVITY

Stability:StablePolymerization:Does not occurChemical 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 mutagenicTeratogenicity: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

Waste Disposal Method: Dispose of waste in accordance with Federal, State and Local laws.

**Disposal Regulatory Requirements:** 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

**Container Cleaning and Disposal:** 

disposed of in accordance with all applicable laws and regulations.

# **SECTION 14 – TRANSPORT INFORMATION**

**DOT Shipping Name:** Not applicable **Shipping Symbols:** Not applicable **Hazard Class:** Not applicable

**DOT Identification No.:** Not regulated unless shipping container holds at least 10,539 pounds.

Not applicable Packing Group: Not applicable Label: Special Provisions (172.102): Not applicable

**Packaging Authorizations** 

a) Exceptions: Not applicable b) Non-bulk Packaging: Not applicable Not applicable c) Bulk Packaging:

**Quantity Limitations** 

a) Passenger, Aircraft, or Railcar: Not applicable b) Cargo Aircraft Only: Not applicable

**Vessel Stowage Requirements** 

a) Vessel Stowage: Not applicable b) Other: Not applicable

## **SECTION 15 – REGULATORY INFORMATION**

#### **EPA Regulations**

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

Does not contain any ingredients listed as a CERCLA Reportable Quantity:

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:** 

All components listed on both TSCA (USA) and DSL Other:

# **SECTION 16 – OTHER INFORMATION**

Prepared By: Industrial Recycling Solutions Inc.

Additional Hazard Rating Systems: None

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