



SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

RelaDyne, LLC
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Cincinnati, OH 45236
888-830-3156
www.reladyne.com

Product Name **Mechanic's Pride 100% Antifreeze All Makes All Models**

SDS Number **954820100AM**

Transportation **INFOTRAC 800-535-5053**
Emergency Phone

SECTION 2: HAZARDS IDENTIFICATION

Appearance Yellow colored liquid

Odor Sweet

Principal Hazards **WARNING! Harmful or fatal if swallowed. May cause eye irritation. Isolate area**
Ingestion of large amounts may cause nausea, vomiting, diarrhea as well as depression of the central nervous system.
May cause mild, transient irritation to the eyes
Prolonged or repeated exposure may cause mild irritation to the skin

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	WT % (approx)
Ethylene glycol	107-21-1	90 - 99
Diethylene glycol	111-46-6	1 - 10
Deionized water	7732-18-5	<5
Potassium Hydroxide	1310-58-3	<1.0
Inhibitor	Not Applicable	<2.0
Dye	Not Applicable	<1.0
Denatonium Benzoate	3734-33-6	<1.0

SECTION 4: FIRST AID MEASURES

Eyes Immediately flush eyes with clean, low-pressure water for at least 15 minutes, occasionally lifting the eyelids. Get medical attention if irritation develops or persists.

Skin Wash skin thoroughly with plenty of soap and water. Immediately remove contaminated clothing. Launder contaminated clothing before reuse. Discard



Oral	saturated leather gloves and shoes. If irritation persists, get medical attention. DO NOT INDUCE VOMITING. Seek medical attention immediately! Do not give anything by mouth to an unconscious person. If vomiting occurs, lower head below knees to avoid aspiration.
Inhalation	In case of overexposure, move person to fresh air. If not breathing, administer artificial respiration and oxygen.
Note to physician	Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point	116°C (241°F) (ethylene glycol)
Extinguishing Media	Carbon dioxide, dry chemical, foam or water fog or spray. Do not use direct water stream; may spread fire.
Fire Fighting Instructions	For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of combustion products and oxygen deficiencies. If firefighters cannot work upwind to the fire, respiratory protective equipment must be worn.
Unusual Fire & Explosion Hazards	Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. See Section 10 for additional information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Ensure your own health and safety before attempting spill control or clean up. Take the proper precautions see Section 1 for Emergency Overview, Section 8 for Personal Protection and Section 13 for Disposal Considerations.

Small Spill	Remove all sources of ignition. Provide adequate ventilation during clean up. Personal protective equipment must be worn (see Person Protection section for recommendations). Absorb spill with an inert material (e.g., cat litter, dry sand or sawdust, vermiculite), then place in a chemical waste container. Use caution, material may present a slipping hazard.
Large Spill	Contain spill and prevent it from entering all water bodies, if possible. Safely stop flow of spill. Evacuate non-essential personnel from immediate spill area. Ventilate area if spilled in a confined space or other poorly ventilated areas. In natural environments, get advice from ecologists on clean-up procedures. Dike area to contain spill. Transfer liquids and solid diking material to separate, suitable containers for recovery or disposal. Comply with all applicable laws. Spills may need to be reported to the National Response Center (800-424-8802).

SECTION 7: HANDLING AND STORAGE

Handling	Do not swallow. Keep away from heat, sparks and flame. Keep containers closed when not in use. Use appropriate containment to avoid environmental contamination. Avoid contact with eyes. Avoid prolonged exposure to skin. Hands should be washed thoroughly after handling.
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Storage KEEP OUT OF REACH OF CHILDREN! Do not store near food, foodstuffs, drugs or potable water supplies. Keep tightly closed in a dry, cool, well ventilated place.

Storage Temperature Ambient

Storage Pressure Atmospheric

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Guidelines:

COMPONENT	OSHA		ACGIH	
	TWA	STEL	TWA	STEL
Ethylene glycol		N/E		100 mg/m ³
Diethylene glycol	N/E	N/E	10 mg/m ³	N/E

Engineering Controls Use adequate ventilation to keep oil mists of this material below applicable guideline(s)/standard(s).

Respiratory Protection Under normal conditions, a respirator is not required. If exposure exceeds the occupational exposure limits, follow OSHA standards or equivalent and wear proper NIOSH/MSHA-approved respiratory equipment.

Skin Protection Use chemical resistant gloves to avoid prolonged or repeated skin contact. Gloves should be replaced if signs of degradation or chemical breakthrough occur. Long sleeve shirt is recommended. When leaving work area, wash hands/exposed skin with soap and water.

Eye Protection Use splash goggles or face shield. Eye wash water should be available. Hard contact lenses should not be worn.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)

Appearance: Yellow liquid

Flash Point: 116 Deg. C (241 Deg. F) (ethylene glycol)

Odor: Sweet

Specific Gravity: 1.110 – 1.145 at 60 Deg. F.

Solubility in Water: 100% literature

Freezing Point: -33 F maximum

Vapor Pressure: Not Determined

Vapor Density: Not Determined

Percent Volatile: Negligible

pH, 100% solution 9.8 – 10.7

Reserve Alkalinity 4.0 ml minimum

Viscosity@ 100 Deg. C: N/A

SECTION 10: STABILITY AND REACTIVITY

Stability Material is considered stable at room temperature and pressure. Avoid heat, sparks and open flame.



Incompatibility	Strong oxidizing agent, strong acids, strong bases
Thermal Decomposition	Decomposition products can include and are not limited to aldehydes, alcohols, ethers
Polymerization	None
Conditions to avoid	None

SECTION 11: TOXICOLOGICAL INFORMATION

Eye Irritation	Mild, transient irritation may occur upon short-term exposure, based on component data.
Skin Irritation	Not expected to be a primary irritant. Mild skin irritation may occur upon short-term exposure, based on component data. Long-term exposure may cause redness, edema, drying and cracking of skin. Persons with pre-existing skin conditions should avoid contact with this material.
Respiratory Irritation	No significant adverse health effects are expected to occur under normal conditions of use. However, exposure to petroleum mist at high levels may be irritating to the nose, throat and lungs.
Oral Toxicity	Component data for Ethylene glycol Estimated Lethal Dose, human adult 3 ounces Diethylene glycol Estimated Lethal Dose human adult 2 ounces (65 ml)
Chronic Toxicity	No Data
Carcinogenicity	Component data indicates that ethylene glycol did not cause cancer in long term animal studies. Diethylene glycol has been tested for carcinogenicity in animal studies and is not believed to pose a carcinogenic risk to man.
Mutagenicity	Component data indicates that based on animal studies, ingestion of very large amounts of ethylene glycol appears to be the major and possibly only route of exposure to produce birth defects.
Teratogenicity	No Data
Reproductive Toxicity	Component data indicates that ingestion of large amounts of ethylene glycol has been shown to interfere with reproduction in animals.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	This material is readily biodegradable based on component data
Environmental Fate	Not available

SECTION 13: DISPOSAL CONSIDERATIONS

To determine the proper method of disposal, refer to RCRA (40 CFR 261) as well as federal EPA and state and local regulations. Conditions of use may cause this material to become a "Hazardous Waste", as defined by state or federal laws. Use approved treatment, transporters and disposal sites in compliance with all applicable laws.

EMPTY CONTAINER WARNING: Empty containers contain residue, which may exhibit the hazards of



the product. Do not attempt to refill or clean containers since residue is difficult to remove. Use proper bonding and grounding procedures.

SECTION 14: TRANSPORT INFORMATION

DOT Hazard Class: Not Regulated
DOT Bulk
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical Name CONTAINS ETHYLENE GLYCOL
 Hazard Class 9 ID Number UN3082 Packing Group PGIII
ICAO/IATA: Not Regulated
IMDG: Not Regulated
Reportable Quantity 5,118 lb. ethylene glycol

SECTION 15: REGULATORY INFORMATION

GLOBAL REGULATORY INFORMATION

<u>INVENTORY</u>	<u>STATUS</u>
United States (TSCA)	All ingredients are on the inventory.
Other TSCA	None known
Canada (DSL)	Contains an ingredient that may not be on the inventory.
European Union (EINECS)	Contains an ingredient that may not be on the inventory.
Japan (METI)	Contains an ingredient that may not be on the inventory.
Philippines (PICCS)	Contains an ingredient that may not be on the inventory.
South Korea (KECL)	Contains an ingredient that may not be on the inventory.
Australia (AICS)	Contains an ingredient that may not be on the inventory.
China (IECSC)	Contains an ingredient that may not be on the inventory.

U. S. REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 (SARA), Title III: This product contains 93% ethylene glycol

SARA Extremely Hazardous list: This product does not contain greater than 1.0% of any chemical on the SARA Extremely Hazardous List.

SARA 311/312

Immediate (Acute) Health Effects	Yes
Delayed (Chronic) Health Effects	Yes
Fire Hazards	No
Reactivity Hazards	No

CERCLA Hazardous Substance: None known

Cal. Prop. 65 Based on information currently available, this product contains the following chemicals known to the state of California to cause cancer or reproductive toxicity:



1, 4 dioxane	CAS 123-91-1	<82.0 ppm
Acetaldehyde	CAS 75-07-0	< 8.0 ppm
Ethanol	CAS 64-17-5	<1.5 ppm
Ethylene glycol monomethyl ether	CAS 64-17-5	<4.5 ppm.

If this product is reformulated or further processed, further evaluation should be done based upon such reformulation or processing, as well as upon its final composition and use.

SECTION 16: OTHER INFORMATION

US NFPA Codes

Health	Fire	Reactivity	Special
2	1	0	N/E

HMIS Codes

Health	Fire	Reactivity
2	1	0

Date: 28 May 2015

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Revision Indicators: Updated

Section 1

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