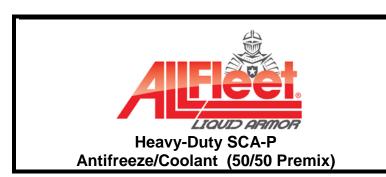


RelaDyne, LLC 9395 Kenwood Road Suite 104 Blue Ash, OH 45242

MATERIAL SAFETY DATA SHEET



SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product/Chemical Name: ALLFLEET Heavy-Duty SCA-P Antifreeze/Coolant (50/50 Premix)

Product Description: Ethylene Glycol, Ethylene Glycol Solution, Prediluted, Fully-Formulated, Heavy Duty

Precharged Coolant (50/50) with Dye

Chemical Family: Inhibited Ethylene Glycol and Water Solution

CAS Registry: Mixture

Manufacturer: Produced for: RelaDyne, LLC

9395 Kenwood Road

Suite 104

Blue Ash, OH 45242

Section 2 - Composition / Information on Ingredients

INGREDIENT	CAS No	Wt. Range %	EXPOSURE LIMIT
*1,2-ethanediol (Ethylene Glycol)	107-21-1	48-51%	50ppm Ceiling-ACGIH
Other glycols	Not applicable	0-3%	None established
Proprietary Additives and Inhibitors	Not applicable	<2.5%	Not applicable
Dye	Not applicable	<1%	Not applicable
Water	7732-18-5	Balance	Not applicable

^{*}Hazardous according to OSHA (1910.1200) or one or more state Right-to-Know lists.

SECTION 3 – HAZARDOUS IDENTIFICATION

 Health:
 2

 Flammability:
 0

 Reactivity:
 0

 Special:
 None

 0 = minimal 1= slight 2=moderate 3= serious 4= severe
 R # 0

 PPE†
 †Sec. 8

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.

Contains ethylene glycol and/or diethylene glycol, which are toxic when Ingestion:

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

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:** Not listed **ACGIH** Not listed

SECTION 4 - FIRST AID MEASURES

Emergency and Eye contact:

First Aid Procedures:

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 at this dilution

Flash Point Method:

Burning Rate:

Autoignition Temperature:

Not applicable

Not determined

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: For large fires use alcohol-type or all purpose foam. For small fires use water

spray, dry chemical, foam or carbon dioxide to extinguish.

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. A direct stream of water or foam may cause frothing. Use water spray to disperse the vapors and to provide

NFPA

protection for person attempting to stop the leak.

Fire-Fighting Equipment: 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.

Unusual Fire Fighting procedures: Not required

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. Empty

containers contain product residue and may be dangerous.

Storage Requirements: Periods of exposure to high temperature should be minimized. Water

contamination should be avoided. Keep containers away from open flames. 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.

Eye 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:
Boiling Point (760 mm Hg):
Freezing/Melting Point:
Specific Gravity (water =1):
Solubility in Water (% by wt):
pH:

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable

Polymerization: Does not occur

Chemical Incompatibilities: Normally unreactive, but try to avoid strong oxidizers, strong acids and strong

bases at high temperatures.

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

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)

Container Cleaning and Disposal:Containers should be cleaned of residual product before disposal, and disposed of in accordance with all applicable laws and regulations.

SECTION 14 – TRANSPORT INFORMATION

DOT Proper Shipping Name: None required if container(s) hold less than 5,000 (~535 gal)

Shipping Symbols: Not applicable Hazard Class: Not applicable

UN Number: Not regulated unless shipping container holds at least 10,539 pounds.

Packing Group:Not applicableLabel:Not applicableSpecial Provisions (172.102):Not applicable

Bulk Shipments

DOT Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Ethylene glycol)

UN Number: UN 3082

Label Requirement: Class 9, UN 3082

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

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

OSHA Regulations:

State Regulations

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

(Canada) inventory.

CANADIAN WHMIS CLASSIFICATION: Class D, Division 2, Subdivision B (A toxic material causing other chronic effects)

SECTION 16 – OTHER INFORMATION

Additional Hazard Rating Systems: None

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