

CLS-AP
Closed Loop Heat Transfer Fluid Add Pak
62080-1510

Additives Plus
P.O. Box 1119
Evergreen, CO 80437
Tel: 303-916-0639 Fax: 303-679-8988
msds@additivesinc.com
MSDS on-line: www.additivesinc.com

MSDS No: 5010
Ver. No: 4
Ver. Date: 02/25/11

24-HOUR EMERGENCY NUMBERS:
PERS 1-800-633-8253
INT'L PERS 1-801-629-0667
CUSTOMER SERVICE:
303-916-0639

National Fire Protection Association

1	Health
0	Flammability
0	Reactivity
	Special

WHMIS: Not Applicable

Protective Equipment:



SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: CLS-AP
Product Description: Closed Loop System Heat Transfer Fluid Additive Package
Chemical Name: Mixture
Chemical Family: Alkaline aqueous solution of inorganic and organic corrosion inhibitors.
Chemical Formula: Mixture
CAS Registry: Mixture
Other Designations: None
General Use: Inhibitor package for automotive antifreeze or additive package for automotive antifreeze/coolant.
Manufacturer: Additives Plus, P.O. Box 1119, Evergreen, CO 80437, Phone (303)-916-0639
 FAX (303) 679-8988 (Hours of operation: Mon-Fri 8:00am-5:00pm MST)
 24-hour Emergency Number: PERS 800-633-8253 Customer Service: 303-916-0639

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

<u>MATERIAL</u>	<u>CAS No</u>	<u>% WT</u>	<u>OSHA PEL</u>
Deionized Water	7732-18-5	Balance	Not applicable
Dipotassium Phosphate Food Grade	7758-11-4	35-45%	Not applicable

SECTION 3 – HAZARDOUS IDENTIFICATION

Health: 1
Flammability: 0
Reactivity: 0
Special: 0
 0 = minimal 1= slight 2=moderate 3= serious 4= severe

HMIS

H # 1
F # 0
R # 0

PPET[†]
[†]Sec. 8

Route(s) of Entry
Inhalation: Airborne concentrations of mist or spray may cause damage to the upper respiratory tract and even to lung tissue. Vapor/fumes are not generated at significant levels until temperature is elevated.

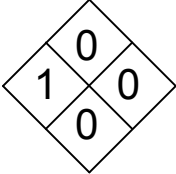
Skin:	Destructive to tissues contacted and produces severe burns. The severity of damage and extent of irreversibility increases with length of contact time.
Ingestion:	Swallowing can cause severe burns and tissue perforation of mucous membranes of the mouth, throat, esophagus and stomach.
Eyes:	Destructive to eye tissue on contact.
Target Organs:	None known
Effects of overexposure:	Contact with the eyes may damage delicate eye tissue. Ingestion will cause mouth, throat and gastrointestinal irritation. Sodium nitrite can cause cyanosis, headache, dizziness, nausea and methemoglobinemia. Inhalation of harmful levels of vapors is unlikely due to the relatively low vapor pressure and the relatively low concentrations of ingredients.
Effects of overexposure:	Acute: None known. Chronic: None known.
Medical Conditions Generally Aggravated by Long-Term Exposure:	
Exposure:	None expected.
Chronic Effects:	None known
Carcinogenicity	
NTP:	None known
IARC Monographs:	None known
OSHA Regulations:	None known
ACGIH	None known

SECTION 4 – FIRST AID MEASURES

Emergency and First Aid Procedures:	Eye contact:	Flush eyes with large amounts of water for 15 minutes. If irritation persists, get medical attention.
	Skin contact:	Wash affected area thoroughly with soap and water. Remove contaminated clothing, rings, etc.
	Ingestion:	Toxic if swallowed. Induce vomiting immediately and seek medical attention.
	Inhalation:	Remove to fresh air. If breathing has stopped, start artificial respiration. Seek medical attention.

Note to Physicians: Treat symptomatically
Special Precautions/Procedures: None known

SECTION 5 – FIRE-FIGHTING MEASURES

Unusual Fire Fighting procedures:	None required; non-flammable product	NFPA
Flash Point:	None detected	
Flash Point Method:	Pensky Martens	
Burning Rate:	Does not burn	
Auto ignition Temperature:	Not available	
Flammable limits in air (% by volume):	Not applicable	
LEL:	Not applicable	
UEL:	Not applicable	
Flammability Classification:	Not flammable	
Extinguishing Media:	Water, fog, foam, CO ₂ , dry chemical	

Unusual Fire or Explosion Hazards:	Closed containers may rupture or explode due to steam pressure build-up when exposed to extreme heat. Water may be used to cool closed containers.
Fire-Fighting Instructions; Fire-Fighting Equipment:	Do not release runoff from fire control methods to sewers or waterways. 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:	Full protective equipment including self-contained breathing apparatus should be used when Additive Inc. Antifreeze Additive Solution is present during a fire. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Seek medical attention.

SECTION 6 – ACCIDENTAL RELEASE MEASURES


Spill/Leak Procedures:	Recover usable material by convenient method; residual may be removed by wipe or wet mop
Small Spills:	Small spills should be absorbed with a suitable inert material (sand, earth, clay, etc.). Remove the absorbed material and place in an appropriate chemical waste container for disposal.
Large Spills:	For large spills, dike and pump into suitable containers. Clean up residual water.
Containment:	For large spills, dike far ahead of liquid spill for later disposal.
Regulatory Requirements:	Follow applicable Federal, State and Local regulations.

SECTION 7 – HANDLING AND STORAGE

Handling Precautions	Wear impermeable gloves and other protective clothing to avoid prolonged or repeated skin contact. When handling, wear eye protection.
Storage Requirements:	Keep containers tightly closed when not in use.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls Ventilation:	Provide general or local exhaust ventilation systems.
Administrative Controls Respiratory Protection:	If personal exposure cannot be controlled below applicable exposure limits by ventilation, wear respiratory devices approved by NIOSH/MSHA, for protection against organic vapors, dust, fumes and mists.

Protective Clothing/Equipment:	Where skin contact may occur, chemical-impervious gloves should be worn. Use chemical goggles or full face shield when the danger of splashing exists. Rubber apron or similar protective clothing to prevent contact with skin or clothes.
	
Work and Hygienic Practices:	Wash or rinse hands before touching eyes or contact lenses, and before eating.
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: Avoid contact with skin, eyes and clothing. Do not take internally. Clean up spills immediately. 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: Hazy, light amber liquid
Boiling Point (760 mm Hg): 233⁰F
Specific Gravity (water =1): 1.385-1.425
Vapor Density (air =1): >1.0
Percent Volatile by Volume: NIL
Evaporation Rate (butyl acetate =1): <1
Solubility in Water (% by wt): 100%
Vapor Pressure (at 20°C): 10mm Hg
pH: 9.0-10.5

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable
Polymerization: Will not occur.
Chemical Incompatibilities: Strong oxidizing agents, strong acids.
Conditions to Avoid: Strong oxidizing agents, strong acids.
Hazardous decomposition products: If involved in a fire the following decomposition products may be generated: Carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen cyanide (possible in reducing atmospheres).

SECTION 11 – TOXICOLOGICAL INFORMATION

Eye Effects: Destructive to eye tissue on contact.
Skin Effects: Destructive to tissues contacted and produces severe burns. The severity of damage and extent of irreversibility increases with length of contact time.
Acute Inhalation Effects: Airborne concentrations of mist or spray may cause damage to the upper respiratory tract and even to lung tissue. Vapor/fumes are not generated at significant levels until temperature is elevated.
Acute Oral Effects: Swallowing can cause severe burns and tissue perforation of mucous membranes of the mouth, throat, esophagus and stomach.
Chronic Effects: None known
Carcinogenicity: Neither product nor its ingredients are listed by IARC, NTD or OSHA
Mutagenicity: Not mutagenic
Teratogenicity: Not Teratogenic

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Not determined
Environmental Fate: Decomposes to carbon, oxygen, nitrogen, phosphate salts and water.
Environmental Degradation: Biodegradable
Soil Absorption/Mobility: Not determined

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste disposal method: Sanitary landfill or incinerate in approved facilities in accordance with local, state and federal regulations.
Disposal Regulatory Requirements: Shipments of waste material may be classified as hazardous and subject to manifesting requirements through applicable regulatory agency.
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 Shipping Name: Non-Hazardous
Shipping Symbols: None
Hazard Class: None
DOT Identification No.: None
Packing Group: None
Label: Non-Hazardous
DOT Class 55

Packaging Authorizations

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

Quantity Limitations

a) **Passenger, Aircraft, or Railcar:** One liter
b) **Cargo Aircraft Only:** One liter

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: Not applicable

CERCLA Hazardous Substance and CERCLA
Reportable Quantity: Not applicable

SARA Toxic Chemical and SARA EHS: Reportable under SARA Title III (40 CFR, Part 370)

OSHA Regulations: Must comply with OSHA standard 29 CFR 1910.1200
(employee right to know)

SECTION 16 – OTHER INFORMATION

Prepared By: Additives Plus

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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This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not apply.

CONSULT ADDITIVES PLUS FOR FURTHER INFORMATION.