

MATERIAL SAFETY DATA SHEET

HVAC-1

Heat Transfer Fluid Add Pak 62080-1551

Additives Plus

P.O. Box 1119 Evergreen, CO 80437

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MSDS on-line: www.additivesinc.com

MSDS No: 5040 Ver. No: 3

Ver. Date: 03/18/11

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

Protective Equipment:









SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

WHMIS: Not Applicable

Product Name:

Product Description: Heat Transfer Fluid Additive Package

Chemical Name:

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

MATERIAL	CAS No	<u>% Wт</u>	OSHA PEL
Deionized Water	7732-18-5	Balance	Not applicable
Tetrapotassium Pyrophosphate	7320-34-5	40-50%	Not applicable
Proprietary Inhibitors	Not applicable	<5%	Not applicable

Section 3 - Hazardous Identification

Health: 1 Flammability: 0 0 Reactivity: Special:

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

H # 1 **F** #0 **R** # 0

HMIS

 PPE^\dagger †_{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.

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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: 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

Flash Point: None detected NFPA

Flash Point Method: Pensky Martens
Burning Rate: Does not burn
Auto ignition Temperature: Not available

100

Flammable limits in air (% by volume): Not applicable

LEL:Not applicableUEL:Not applicableFlammability Classification:Not flammable

Extinguishing Media: Water, fog, foam, CO₂, 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; Do not release runoff from fire control methods to sewers or waterways.

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: 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 PrecautionsWear 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): 255°F Specific Gravity (water =1): 1.20-1.25 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: 9.0-11.0

SECTION 10 – STABILITY AND REACTIVITY

Stability:StablePolymerization: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:Soil Absorption/Mobility:
Biodegradable
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.

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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 applicableb) Non-bulk Packaging:Not applicablec) Bulk Packaging:Not applicable

Quantity Limitations

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

Vessel Stowage Requirements

a) Vessel Stowage: Not applicableb) 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

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