

# HAMMONDS COLDFLO®

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## SECTION 1 PRODUCT IDENTIFICATION

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**TRADE NAME:** COLDFLO® - DIESEL FUEL WINTER OPERATIONS ADDITIVE  
**DESCRIPTION:** A vinyl copolymer in a hydrocarbon solvent.

**NFPA 704M/HMIS RATING:** 1/1 HEALTH 2/2 FLAMMABILITY 0/0 OTHER  
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

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## SECTION 2 HAZARDOUS INGREDIENTS

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Our hazard evaluation has identified the following chemical ingredient(s) as hazardous under OSHA's Hazard Communication rule, 29 CFR 1910.1200. Consult Section 14 for the nature of the hazard(s).

INGREDIENT(S)	CAS #	APPROX.%
Heavy aromatic naphtha	64742-94-5	40 - 70

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## SECTION 3 PRECAUTIONARY LABEL INFORMATION

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**WARNING!** Combustible. May cause irritation to skin and eyes. Prolonged inhalation of vapor may be harmful. Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated breathing of vapor. Use with adequate ventilation. Do not take internally. Keep away from heat and sparks and open flames. Keep container closed when not in use.

Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

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## SECTION 4 FIRST AID INFORMATION

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**Eyes:** Flush with water for 15 minutes. Call a physician.  
**Skin:** Wash thoroughly with soap and rinse with water. Call a physician.  
**Ingestion:** Do not induce vomiting. Give water. Call a physician.  
**Inhalation:** Remove to fresh air. Treat symptoms. Call a physician.

**Note to Physician:** Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

**Caution:** If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

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## SECTION 5 HEALTH EFFECTS INFORMATION

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**PRIMARY ROUTE(S) OF EXPOSURE:** Eye, Skin, Inhalation

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**EYE CONTACT:** May cause irritation with prolonged contact.  
**SKIN CONTACT:** May cause irritation with prolonged contact.  
**INHALATION:** Prolonged inhalation of vapor may be harmful.

**SYMPTOMS OF EXPOSURE:**

**ACUTE:** Inhalation of high concentrations of heavy aromatic naphtha can cause nausea, dizziness, vomiting, stupor or unconsciousness.

**CHRONIC:** Prolonged skin contact with heavy aromatic naphtha can cause dry skin and defatting, resulting in irritation and dermatitis.

**AGGRAVATION OF EXISTING CONDITIONS:** A review of available data does not identify any worsening of existing conditions.

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### **SECTION 6 TOXICOLOGY INFORMATION**

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**TOXICITY STUDIES:** No toxicity studies have been conducted on this product.

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### **SECTION 7 PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Color:</b>	Hazy yellow to orange	<b>Form:</b> Liquid	<b>Odor:</b> Hydrocarbon
<b>Density:</b>	7.6-7.9 lbs/gal.		
<b>Solubility in Water:</b>	Insoluble		
<b>Specific Gravity:</b>	0.91-0.95 @ 60 Degrees F		ASTM D-1298
<b>Viscosity:</b>	Greater than 40 cps @ 100°F		ASTM D-2983
<b>Pour Point:</b>	Maximum 35°F		ASTM D-97
<b>Flash Point:</b>	Minimum 109°F (PMCC)		ASTM D-93
<b>Vapor Pressure:</b>	25 mm Hg @ 100°		ASTM D-323

**NOTE:** These physical properties are typical values for this product.

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### **SECTION 8 FIRE AND EXPLOSION INFORMATION**

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**FLASH POINT:** Minimum 109 degrees F (PMCC) ASTM D-93

**EXTINGUISHING MEDIA:** Based on the NFPA guide, use dry chemical, foam, carbon dioxide or other extinguishing agent suitable for Class B fires. Use water to cool containers exposed to fire. For large fires, use water spray or fog, thoroughly drenching the burning material.

**UNUSUAL FIRE AND EXPLOSION HAZARD:** Containers exposed in a fire should be cooled with water to prevent vapor pressure buildup leading to a rupture.

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## **SECTION 9 REACTIVITY INFORMATION**

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**INCOMPATIBILITY:** Avoid contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorates, concentrated oxygen, permanganates) which can generate heat, fires, explosions and the release of toxic fumes.

**THERMAL DECOMPOSITION PRODUCTS:** In the event of combustion CO, CO<sub>2</sub> may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

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## **SECTION 10 PERSONAL PROTECTION EQUIPMENT**

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**RESPIRATORY PROTECTION:** Respiratory protection is not normally needed since the volatility and toxicity are low. If significant vapors are generated, use either a chemical cartridge respirator or supplied air.

For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure-demand, self-contained breathing apparatus is recommended.

**VENTILATION:** General ventilation is recommended.

**PROTECTIVE EQUIPMENT:** Use impermeable gloves and chemical splash goggles when attaching feeding equipment, doing maintenance or handling product. Examples of impermeable gloves available on the market are neoprene, nitrile, PVC, natural rubber, viton and butyl (compatibility studies have not been performed).

The availability of an eye wash fountain and safety shower is recommended.

If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

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## **SECTION 11 SPILL AND DISPOSAL INFORMATION**

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**IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER: (800)424-9300**

### **SPILL CONTROL AND RECOVERY:**

**Small liquid spills:** Contain with absorbent material, such as clay, soil or any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal. Refer to CERCLA in Section 14.

**Large liquid spills:** Dike to prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERCLA in Section 14.

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**DISPOSAL:** If this product becomes a waste, it meets the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40CFR261. Hazardous Waste D001. In addition, this product may contain trace levels of benzene. Before disposal, the product should be analyzed to determine if it meets the hazardous waste classification of D018 (Toxicity Characteristic Leaching Procedure (TCLP) Test).

As a hazardous liquid waste, it must be solidified with stabilizing agents (such as sand, fly ash, or cement) so that your free liquid remains before disposal to a licensed industrial waste landfill (Hazardous Waste Treatment, Storage and Disposal facility). A hazardous liquid waste can also be incinerated in accordance with local, state, and federal regulations.

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## ***SECTION 12 ENVIRONMENTAL INFORMATION***

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If released into the environment, see CERCLA in Section 14.

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## ***SECTION 13 TRANSPORTATION INFORMATION***

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**DOT PROPER SHIPPING NAME/HAZARD CODE -** FLAMMABLE LIQUID, N.O.S.  
3, UN 1993, PG III

**CONTAINS:** AROMATIC HYDROCARBONS

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## ***SECTION 14 REGULATORY INFORMATION***

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The following regulations apply to this product.

### **FEDERAL REGULATIONS:**

#### **OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:**

Based on our hazard evaluation, the following ingredient in this product is hazardous and the reasons are shown below:

**Heavy aromatic naphtha** - Combustible, skin irritant

**Heavy aromatic naphtha** - 100 ppm TLV  
Manufacturer's recommendation

#### **CERCLA/SUPERFUND, 40 CFR 117, 302:**

Notification of spills of this product is not required.

**SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) -  
SECTIONS 302, 311, 312 AND 313:**

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**SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40CFR 355):**

This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance..

**SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):** Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPAn hazard categories.

XX	Immediate (acute) health hazard
----	Delayed (chronic)
XX	Fire hazard
----	Sudden release of pressure hazard
----	Reactive hazard

**SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372):**

This product does not contain ingredients on the list of Toxic Chemicals.

**TOXIC SUBSTANCES CONTROL ACT (TSCA):**

The chemical ingredients in this product are on the 8 (b) Inventory List (40 CFR 710).

**REGISTERED WITH THE U. S. EPA, OFFICE OF FUEL AND FUEL ADDITIVE REGISTRATION,** as a fuel additive.

**RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D:**

Consult Section 11 for RCRA classification.

**FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15** (formerly Sec. 307), 40 CFR 116 (formerly Sec. 311):

**CLEAN AIR ACT,** Sec. 111 (40 CFR 60), Sec. 112 (40 CFR 61, 1990 Amendments):

This product does not contain ingredients covered by the Clean Air Act.

**STATE REGULATIONS:**

**CALIFORNIA PROPOSITION 65:**

Substances known to the State of California to cause cancer are present as an impurity or residue.

**MICHIGAN CRITICAL MATERIALS:**

This product does not contain ingredients listed on the Michigan Critical Materials Register.

**STATE RIGHT TO KNOW LAWS:**

The following ingredients are disclosed for compliance with State Right to Know Laws:

Ethylene vinyl acetate copolymer	24937-78-8
Heavy aromatic naphtha	68603-08-7

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## **INTERNATIONAL REGULATIONS:**

This is a WMNIS controlled product under The House of Commons of Canada Bill C-70 (Class B3 and Class D2A). The product contains the following substance(s), from the Ingredient Disclosure List or has been evaluated based on its toxicological properties, to contain the following hazardous ingredient(s):

Chemical Name	CAS #	%Concentration Range
Heavy aromatic naphtha	64742-94-5	40 -70
Heavy aromatic naphtha	91-20-3	5 -10

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## **SECTION 15 ADDITIONAL INFORMATION**

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This product contains vinyl acetate monomer. Preliminary animal data indicate that vinyl acetate monomer shows some evidence of carcinogenicity. This finding is of questionable significance to humans. At high doses of vinyl acetate monomer, reproductive effects were noted in male animals.

Vinyl acetate = TWA 10 ppm, STEL 20 ppm ACGIH/TLV  
30 mg/m<sup>3</sup>, 60 mg/m<sup>3</sup> ACGIH/TLV

Vinyl acetate = TWA 10 ppm, STEL 20 PPM OSHA/PEL  
30 mg/m<sup>3</sup>, 60 mg/m<sup>3</sup> OSHA/PEL

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## **SECTION 16 USER'S RESPONSIBILITY**

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This product Material Safety Data Sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your local sales representative for any further information.

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## **SECTION 17 BIBLIOGRAPHY**

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