

HMIS RATINGS:  
Health: 1  
Flammability: 0  
Reactivity: 0  
Personal Protection: B

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: HF LIQUID DETERGENT  
Chemical Family: Detergent Cleaner  
Company Identification: ALGONQUIN PRODUCTS, CO.  
1165 ALLGOOD RD SUITE 13  
MARIETTA, GA 30062  
Emergency Telephone Number: (800)535-5053  
Date Prepared: October 24, 2006  
MSDS Number: 1051

Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

CAS NUMBER	CHEMICAL NAME	% BY WGT.	OSHA PEL/ACGIH TLV	SARA 302/304 (1) *	SARA 313 (2) *	STATE INFO (3) (4)
-	This product contains	-	-	-	-	-
-	no hazardous	-	-	-	-	-
-	ingredients.	-	-	-	-	-

\* See Section 15 for more information                      n/e = none established - n/a = not applicable

Section 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION. May cause irritation to the eyes.

Primary Route of Entry: Eye contact.

Acute/Potential Health Effects:

EYES: This product may cause irritation to the eyes.

SKIN: May cause mild irritation with prolonged or repeated use.

INHALATION: Not harmful.

INGESTION: May cause gastrointestinal upset.

**Section 3: HAZARDS IDENTIFICATION - continued:**

Chronic / Long Term Effects: No data.

Signs and Symptoms of Overexposure: Ingestion may cause nausea, vomiting and diarrhea.

Target Organ Effects: No data.

Reproductive/Developmental Information: No data.

Carcinogenic Information: This material is not listed as a carcinogen by IARC, NTP or OSHA.

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**Section 4: FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

**SKIN:** Rinse with water.

**INHALATION:** No specific treatment is necessary since this material is not likely to be hazardous by inhalation.

**INGESTION:** Give large quantities of water or milk. Induce vomiting. Get medical attention.

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**Section 5: FIRE FIGHTING MEASURES**

**Flash Point:** No flash by standard methods.

**Extinguishing Media:** Use appropriate methods for combating surrounding fire.

**Special Fire Fighting Instructions:** Wear a self contained breathing apparatus with a full face piece operated in the positive pressure demand mode.

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**Section 6: ACCIDENTAL RELEASE MEASURES**

Absorb spill with inert material. Flush area well with water to remove trace residue. Surfaces may become slippery after spillage.

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**Section 7: HANDLING AND STORAGE**

Store in a cool, dry area. Keep from freezing.

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**Section 8: EXPOSURE CONTROLS and PERSONAL PROTECTION**

**Eye Protection:** Safety glasses recommended.

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Skin Protection: Gloves are recommended with repeated or prolonged contact.

Respiratory Protection: No special requirements are needed for this material.

Engineering Controls: Use general ventilation.

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**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance and Odor: Clear, light green liquid; odorless.

pH Concentrate: 9.0

Solubility in Water: Complete

Vapor Pressure [mmHg]: n/e

Evaporation Rate (Butyl Acetate=1): n/a

Vapor Density [Air=1]: n/e

Specific Gravity [H2O=1]: 1.06

Boiling Point: > 212 F

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**Section 10: REACTIVITY**

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions to avoid: High temperature

Hazardous Decomposition Products: CO, CO2

Incompatibility: Strong acids, oxidizers

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**Section 11: TOXICOLOGICAL INFORMATION**

No data.

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**Section 12: ECOLOGICAL INFORMATION**

No data.

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**Section 13: DISPOSAL CONSIDERATIONS**

Waste Disposal Method:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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**Section 14: TRANSPORTATION INFORMATION**

D.O.T. Shipping Name / Class:

Not regulated.

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**Section 15: REGULATORY INFORMATION**

U.S. Federal Regulations:

TSCA (Toxic Substances Control Act): The intentional ingredients of product are listed.

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Title III Section 311/312 Hazardous Categories - 40 CFR 370.2:

ACUTE ( ) Chronic ( ) Fire ( ) Pressure ( ) Reactive ( ) Not Applicable (X0

(1) Title III Section 302/304 Extremely Hazardous Substances - 40 CFR 355 Appendix A

(2) Title III Section 313 Toxic Chemicals - 40 CFR 372.65

If indicated under Section 2 of this MSDS, this product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right to Know Act of 1986. This information must be included in all MSDS that are copied and distributed for this material.

RCRA Status: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. If this product becomes a hazardous waste it would be assigned RCRA Code(s)  
None

State and Local Regulations: Certain states maintain their own ingredient lists which differ slightly from the Federal standards. If indicated under Section 2 of this MSDS, states listed below may have regulations on ingredients contained in this product. Check with your state for any additional regulations.

(3) California proposition 65 (Safe Drinking Water &amp; Toxic Enforcement Act of 1986)

(4) Massachusetts (Hazardous Substance Disclosure by Employers)

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**Section 16: OTHER INFORMATION**

This information was compiled from current manufacturer's MSDS's of the component parts of the product.

Disclaimer: The Manufacturer believes that the information contained in the Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.