

MATERIAL SAFETY DATA SHEET

1. American Polywater Corporation

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Emergency Number: 1-651-430-2270

Product Name: FD™ Cleaner/Degreaser

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Reviewed By: S. H. Dahlke

2. HAZARDOUS INGREDIENTS

<u>Components**</u>	<u>CAS #</u>	<u>Weight %</u>	<u>ACGIH TLV</u>	<u>OSHA TWA</u>
Isohexanes	107-83-5	>70	1800 mg/m ³	500 ppm
n-Hexane	110-54-3	<5	180 mg/m ³	50 ppm
Ethanol	64-17-5	<10	1900 mg/m ³	1000 ppm
Pentane	109-66-0	<10	1800 mg/m ³	600 ppm

* All components are TSCA listed

3. HAZARDS IDENTIFICATION

Emergency Overview

Solvent Alcohol, hydrocarbon blend. Fast evaporating cleaner

Flammable. Keep away from fire and flame. Use with adequate ventilation. Do not ingest. Avoid contact with skin. In case of eye contact, flush eyes with water. Keep out of reach of children.

Eye Contact: Direct eye contact with vapors may cause eye irritation. This irritation is minimal and expected to be transient.

Skin Contact: Skin irritant. Prolonged or repeated skin exposure can remove oils, causing redness, drying and cracking. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material.

Inhalation (Breathing): Excess inhalation can cause headache; narcosis; dizziness; drowsiness; irritation; unconsciousness; numbness; potential nerve damage; and pulmonary irritation.

Ingestion (Swallowing): Excess ingestion can cause nausea; drowsiness, stupor; incoordination; CNS depression; potential liver damage. Content is an aspiration hazard.

Carcinogenic Status: This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC or OSHA, nor have any of its components.

4. FIRST AID

Eye Contact: If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing; flush skin thoroughly with water. If irritation occurs, seek medical attention.

Inhalation (Breathing): If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.

Ingestion (Swallowing): Do not induce vomiting or give anything by mouth. Petroleum content can be aspirated into lungs and cause aspiration pneumonitis. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention.

5. FIRE AND EXPLOSION HAZARD

Flash Point: >20°F/-5°C (TCC)

Flammable Limits: LEL: >1.2 UEL: >15.0

Extinguishing Media: Dry chemical, Foam, water spray, or CO₂

Special Procedures: Wear full protective clothing, including self-contained, positive pressure or pressure-demand breathing apparatus. Use water spray to cool fire-exposed containers.

Unusual Hazards: Vapors are heavier than air and can travel considerable distances to ignition sources to flash or explode.

6. ACCIDENTAL RELEASE MEASURES

Keep all sources of ignition away from spill. For small spills, absorb with sand or absorbents. For large spills, stay upwind and away from spill. Wear protective respiratory equipment and clothing and use non-sparking utensils to collect absorbents. If spill is indoors, ventilate area of spill. Keep out of drains, sewers or waterways. Do not flush area with water.

7. HANDLING AND STORAGE

Keep containers tightly closed. Keep containers cool, dry, and away from sources of ignition. Do not transport or store near heat sources. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. Use and store this product with adequate ventilation. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

8. CONTROL MEASURES

Respiratory Protection: Normal ventilation adequate. If exposure exceeds recommended limits, respirator protection is recommended. Use a respirator or gas mask with cartridges for organic vapors (NIOSH approved) or use supplied air equipment.

Protective Gloves: For repeated or prolonged skin contact, the use of impermeable gloves is recommended to prevent drying and possible irritation.

Eye Protection: Eye protection is recommended, especially if the material is used in ways where it could splash in the eyes.

Other Protective Equipment: It is suggested that a source of clean water be available in work area for flushing eyes and skin. Impervious clothing should be worn as needed.

9. PHYSICAL DATA

Appearance: Clear, colorless liquid, mild odor

Vapor Pressure: 150 mm Hg @ 70°F

Specific Gravity (H₂O = 1): 0.67

Percent Volatiles (Weight): 100%

Boiling Point: 120°F (55°C) to 174°F (90°C)

Vapor Density (Air = 1): >1

Evaporation Rate: > 1 (Ether = 1)

Volatile Organic Compounds (VOC): 670 grams/liter

10. REACTIVITY DATA

Stability: Stable

Hazardous Polymerization: Will not occur.

Incompatibility: Oxidizing agents and strong acids (or bases).

Conditions to Avoid: High temperatures, open flame, other potential ignition sources.

11. HEALTH HAZARD/TOXICOLOGICAL INFORMATION

Refer to Section 3 for available information on potential health effects.

12. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with local, county, state, and federal regulations.

13. TRANSPORTATION

DOT Hazard Class: Flammable Liquid, 3

DOT Shipping Name: Flammable Liquid N.O.S.
(Contains: Isohexane/Ethanol) 3; UN1993; PGII

14. REGULATORY STATUS

Canada WHMIS Class: B2

Hazard Categories for SARA
Section 311/312 Reporting

Acute
No

Chronic
Yes

Fire
Yes

Pressure
No

Reactive
No

<u>Components</u>	<u>CERCLA/SARA Sec. 302</u>		<u>SARA Sec. 313</u>
	<u>Hazardous Substance RQ</u>	<u>EHS TPQ</u>	<u>Toxic Release</u>
n-Hexane (FD™ contains 2.7%)	Yes (5000 Lb)	No	Yes (1%)

Disclaimer: The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.