

Material Safety Data Sheet

Freeman F-Bond Accelerator

Date of Preparation: April 12, 2010

Section 1 Chemical Product and Company Identification

Product/Chemical Name: Freeman F-Bond Accelerator
Chemical Family: Solvent
CAS Number: N/A
Other Designations: N/A
General Use: N/A
Manufacturer: Freeman Manufacturing and Supply Company, 1101 Moore Road, Avon, OH 44011
Phone (440) 934-1902, FAX (440) 934-7200, Hours of Operation 8-5,
Emergency phone number 1-800-424-9300

HMIS	
H	2
F	3
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PPE Sec.8.	

Section 2 Composition/Information on Ingredients

Ingredient Name	CAS Number
Naphtha	Varies
Heptane	142-82-5
Methylcyclohexane	108-87-2

Ingredient	OSHA PEL		ACGIH TLV		Vapor Pressure
	TWA	STEL	TWA	STEL	
Naphtha	N/A	N/A	N/A	N/A	N/A
Heptane	N/A	500 ppm	400 ppm	500 ppm	40 mm Hg @ 68°F
Methylcyclohexane	N/A	500 ppm	400 ppm	N/A	33 mmHg @ 68°F

Section 3 Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Flammable. Eye Irritant. Inhalation

Potential Health Effects

Primary Entry Routes: Skin; Inhalation from vapors.

Acute Effects:

Inhalation: Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, and may have other central nervous system effects.

Eye: Irritation

Skin: Frequent or prolonged contact may irritate and cause dermatitis.

Ingestion: Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.

Chronic Effects: IARC, NTP, and OSHA do not list any component as a carcinogen.

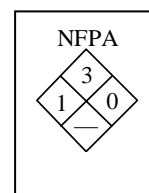
Freeman F-Bond Accelerator

Section 4 First Aid Measures

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen and/or artificial respiration.
Eye Contact: Flush with plenty of water for 15 minutes and get medical attention.
Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing and launder before reuse.
Destroy contaminated shoes.
Ingestion: Do not induce vomiting. Keep at rest. Get medical attention.

Section 5 Fire Fighting Measures

Flash Point: 15 °F (-9.5 °C)
Flash Point Method: Closed Cup
LEL: 1.1 % v/v
UEL: 6.7 % v/v
Extinguishing Media: Foam, water fog, CO₂, or dry chemical
Fire-Fighting Equipment: Use self-contained breathing apparatus.
Fire and Explosion Hazards: Decomposition and combustion products may be toxic.



Section 6 Accidental Release Measures

Spill /Leak Procedures: Stop spill at source .Eliminate all sources of ignition, such as smoking, sparks or flames. Dike area and contain. Clean up remainder with absorbent materials such as sand or vermiculite. Mop up and dispose of.

Section 7 Handling and Storage

Handling & Storage: Use with adequate ventilation. Avoid prolonged breathing of vapor. Avoid prolonged or repeated contact with skin. Wear safety goggles or face shield. Wear gloves, apron and footwear impervious to this material. Wash clothing before reuse. Store at ambient temperatures. Keep container tightly closed and upright when not in use to prevent leakage.

Section 8 Exposure Controls/Personal Protection

Ventilation: Local exhaust recommended. General mechanical is acceptable. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2).
Respiratory Protection: Use a NIOSH approved respirator when vapor/mist exposure is likely.
Eye Protection: Wear splash-proof chemical goggles.
Skin Protection: Wear impermeable gloves.
Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
Comments: 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.

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Section 9 Physical and Chemical Properties

Appearance and Odor: Colorless liquid, mild hydrocarbon odor

Vapor Pressure: 44 mm Hg at 68 °F

Specific Gravity (H₂O=1): 0.79

Vapor Density (Air=1): > 1

Water Solubility: Negligible

Boiling Point: ≥195°F

Freezing/Melting Point: N.D

Section 10 Stability and Reactivity

Stability: Stable.

Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities: Strong oxidizing agents

Conditions to Avoid: Heat, sparks and flame

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide.

Section 11 Toxicological Information

Acute Inhalation Exposure Effects: Respiratory irritant.

Skin Irritation: Irritant.

Eye Irritation: Irritant, will injure eye tissue.

Section 12 Ecological Information

No Known evidence of adverse effects from available information

Section 13 Disposal Considerations

Disposal: Use safety containers for disposal. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations

Empty Container Warning: "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

Section 14 Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Heptanes

Shipping Symbols:

Hazard Class: 3

ID No.: UN 1206

Packing Group: II

Label: Flammable Liquid

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Section 15 Regulatory Information

US Federal Regulations:

OSHA (Occupational Safety and Health Act): This Material Safety Data Sheet has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

CERCLA:

If the reportable quantity of this product is accidentally spilled, the incident is subject to the provisions of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and must be reported to the National Response Center by calling 800-424-8802.

The reportable spill quantity of this product is what produces a visible sheen on the water

RCRA (Resource Conservation and Recovery Act): Not a hazardous waste under RCRA (40 CFR 261).

SARA 311/312 Codes: Fire. Immediate Health.

SARA Toxic Chemical (40 CFR 372.65): This product contains the following toxic chemical subject to the reporting requirements of Section 313 of SARA Title III of 1986 and of 40 CFR 372

TSCA Inventory Status: All ingredients listed on TSCA inventory requirements.

State Regulations: California Proposition 65 - Traces of benzene and toluene

Listed on the following states Right to Know Lists: Heptane (142-82-5) and methylcyclohexane are on the New Jersey and Pennsylvania Right to Know Lists.

Section 16 Other Information

Disclaimer: The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.