

Freeman F-Bond Accelerator with Pump

Section 1 Identification

Product identifiers

Product name: Freeman F-Bond Accelerator with Pump

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Used to accelerate cure time. For industrial use only.

Details of the supplier of the safety data sheet:

Freeman Manufacturing & Supply Company
1101 Moore Road, Avon, OH 44011-4043 USA
Telephone: (440) 934-1902
Email: contactus@freemansupply.com

24-Hour Emergency Number
CHEMTREC: (800) 424-9300

Section 2 Hazards Identification

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

Flammable Liquids, Category 2

Eye Irritation, Category 2A

Specific Target Organ Toxicity - Single Exposure (Central nervous system), Category 3

Specific Target Organ Toxicity - Repeated Exposure, Category 2

Label elements



Danger

Hazard statements

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention: P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection.

Response: P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314 Get medical advice/ attention if you feel unwell. P337 + P313 If eye irritation persists: Get medical advice/ attention. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage: P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Section 3 Composition/Information on Ingredients

Chemical Name	CAS Number	Concentration (%)
Acetone	67-64-1	90-99
N,N-dimethyl-p-toluidine	99-97-8	1-5

Freeman F-Bond Accelerator with Pump

Section 4 First Aid Measures

If inhaled: Move person into fresh air. Keep patient warm and at rest. Consult a physician after significant exposure.
In case of skin contact: Wash off immediately with soap and plenty of water. Get medical assistance if skin irritation develops or persists.
In case of eye contact: Remove contact lenses, if worn. Flush opened eyes thoroughly with water, as well as under the eyelids. Get medical attention.
If swallowed: Call poison control or doctor immediately. Do not induce vomiting unless directed to by a medical professional.
Most important symptoms and effects, both acute and delayed: Causes serious eye irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.

Section 5 Fire-Fighting Measures

Extinguishing media

Suitable: Use alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable: Water

Hazardous combustion products

No hazardous combustion products known.

Advice for firefighters

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. Avoid contact with skin and eyes. Ensure adequate ventilation. Keep away from heat and flame. For personal protection see section 8.

Environmental precautions

Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

Ventilate the area. Absorb with liquid binding material. Sweep up and shovel into suitable, closed containers for disposal.

Section 7 Handling and Storage

Precautions for safe handling

Use with adequate ventilation. Wear personal protective equipment. Do not get on skin or clothing. Keep away from heat and flame.

Conditions for safe storage

Protect from sunlight and do not expose to temperatures exceeding 50 °C. Keep in a cool, well-ventilated place. Do not store together with oxidizing and self-igniting products.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

Ingredient	OSHA		ACGIH	
	TWA	STEL	TWA	STEL
Acetone	750 ppm	1,000 ppm	250 ppm	500 ppm

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits.

Freeman F-Bond Accelerator with Pump

Section 8 Exposure Controls/Personal Protection

Personal protective equipment (PPE)

Eye/face protection: Use safety glasses equipped with side shields. If splashes are likely to occur, wear goggles.

Hand Protection: Use disposable nitrile rubber gloves. Contaminated gloves should be replaced.

Body Protection: Prevent skin contact when handling material.

Respiratory Protection: The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

Safety Stations

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

General Hygienic Practices

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

Section 9 Physical and Chemical Properties

Appearance	Colorless aerosol
Odor	Characteristic solvent
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
Boiling range	No data available
Flash Point	-18°C
Evaporation rate	No data available
Flammability (solid, gas)	Not classified as a flammability hazard
Upper/lower flammability	No data available
Vapor Pressure	Approximately 50 psig at 10°C
Vapor density	No data available
Density (g/cm³)	0.785
Water Solubility	No data available
Coefficient: n-octanol/water	No data available
Viscosity	No data available

Section 10 Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None known
Conditions to avoid	Heat and open flames.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition	Thermal oxidative decomposition can produce Nitrogen oxides and sulfur oxides

Section 11 Toxicological Information

Acute oral toxicity	> 5,000 mg/kg, Method: Calculation
Acute inhalation toxicity	> 200 mg/l, Exposure: 4 Hours, Test atmosphere: Vapor, Method: Calculation
Acute dermal toxicity	> 5,000 mg/kg, Method: Calculation
Skin corrosion / irritation	No data available.
Eye damage / irritation	No data available.

Freeman F-Bond Accelerator with Pump

Section 11 Toxicological Information

Respiratory or skin sensitization	No data available.
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: Group 2B - Possibly carcinogenic to humans N,N-dimethyl-p-toluidine (CAS 99-97-8) NTP/OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
Reproductive toxicity	No data available.
Specific target organ toxicity	
- single exposure	No data available
- repeated exposure	No data available.
Aspiration hazard	No data available

Section 12 Ecological Information

Ecotoxicity	N,N-dimethyl-p-toluidine: Toxicity to Fish: LC50 (Pimephales promelas (fathead minnow)): 42 - 50.5 mg/l Exposure time: 96 h, Test Method: flow-through test
Persistence and degradability	No data available
Bioaccumulative potential	Acetone: Partition coefficient: n-octanol/water: log Pow: -0.24
Mobility in soil	No data available
Results of PBT & vPvB assessment	No data available

Section 13 Disposal Considerations

Do not dispose of together with household waste. Do not dispose of waste into sewer.
 To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended, as industry best practice. Consult state, local or provincial authorities for more restrictive requirements.

Section 14 Transport Information

IATA-DGR
 Not permitted for transport

IMDG
UN Number: UN1090
Shipping Name: Acetone
Hazard Class: 3
Packing Group: II
Label: 3
EmS Code: F-E, S-D
Marine pollutant: No

49 CFR
UN Number: UN1090
Shipping Name: Acetone solution
Hazard Class: 3
Packing Group: II
Label: Flammable Liquid
ERG Code: 127
Marine pollutant: No

Freeman F-Bond Accelerator with Pump

Section 15 Regulatory Information

US EPA Superfund Amendments and Reauthorization Act (SARA)

SARA 302: This material does not contain any components with a section 302 EHS TPQ.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Proposition 65

This product does not contain any chemicals including known to the State of California to cause cancer, birth defects, or any other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Inventories

TSCA (USA), All substances listed as active on the TSCA inventory

DSL (Canada), All components of this product are on the Canadian DSL

REACH(Europe), Not in compliance with the inventory

AIIIC (Australia), On the inventory, or in compliance with the inventory

NZIoC (New Zealand), Not in compliance with the inventory

ENCS (Japan), On the inventory, or in compliance with the inventory

KECI (Korea), On the inventory, or in compliance with the inventory

PICCS (Philippines), On the inventory, or in compliance with the inventory

IECSC (China), On the inventory, or in compliance with the inventory

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.

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