

Section 1 Identification

Product identifiers

Product names: Freeman F-Bond Medium

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

Identified uses: Anaerobic cure adhesive

For industrial use only

Details of the supplier of the safety data sheet

Freeman Manufacturing and Supply Company

1101 Moore Road, Avon, OH 44011

Phone (440) 934-1902

FAX (440) 934-7200

Emergency telephone number

CHEMTREC 24 hour: (800) 424-9300

HMIS III

H	2
F	1
R	0

Section 2 Hazards Identification

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

Eye Irritation, Category 2A

Skin Irritation, Category 2

Specific Target Organ Toxicity, single exposure, Category 3 (Respiratory)

GHS Label elements, including precautionary statements



Signal word

Warning

Hazard statements

Causes serious eye irritation.

Causes skin irritation.

May cause respiratory irritation.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves / eye protection / face protection.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

IF ON SKIN: Wash with plenty of water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Section 2 Hazards Identification continued

Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

None known

Section 3 Composition/Information on Ingredients

Mixture

Hazardous Components	CAS Number	Percent (%)
Ethyl-2-cyanoacrylate	7085-85-0	70-90

Section 4 First Aid Measures

Description of 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.
Consult a physician if irritation develops or persists.

In case of eye contact

Flush eyes immediately with water. Rinse under eyelids. Seek medical advice.

If swallowed

Seek medical attention. Do not induce vomiting without medical advice.

Section 5 Fire-Fighting Measures

Suitable extinguishing media

Carbon dioxide, extinguishing powder or water spray.

Unsuitable extinguishing media

Water spray jet

Hazardous combustion products

Nitrogen oxides

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.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Refer to protective measures listed in section 7 and 8.
Keep unprotected persons away. Ensure adequate ventilation

Environmental precautions

Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

Ensure adequate ventilation. Absorb with liquid-binding material and shovel or sweep up.

Section 7 Handling and Storage

Precautions for safe handling

- Open and handle receptacle with care.
- Ensure good ventilation/exhaustion at the workplace.
- Wear personal protective equipment.
- Avoid contact with skin and eyes. Bonds skin and eyes in seconds.

Conditions for safe storage, including any incompatibilities

- Store at ambient temperatures in tightly sealed containers.
- Do not store together with oxidizing or self-igniting products.

Section 8 Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

Component	CAS Number	Value type	Control parameter / Permissible concentration	Basis
Ethyl-2-cyanoacrylate	7085-85-0	TWA	0.2 ppm	ACGIH
		STEL	1 ppm	ACGIH

Exposure controls

Appropriate engineering controls

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

Personal protective equipment

Eye/face protection

Use tightly fitting safety goggles.

Skin protection

Hand Protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of gloves: neoprene, nitrile rubber, butyl-rubber

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 liquid
Odor	Characteristic, irritating
Odor threshold	No data available
pH	No data available
Melting point	No data available
Boiling point	No data available
Flash Point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	Not classified as a flammable hazard
Upper/lower flammability	No data available
Vapor pressure	No data available
Vapor density	No data available
Density	1.06 g/cm ³
Water Solubility	No data available
Coefficient: n-octanol/ water	No data available
Auto-ignition temperature	No data available
Viscosity	No data available

Section 10 Stability and Reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: No dangerous reactions known
Hazardous decomposition products: Nitrogen oxides, sulfur oxides

Section 11 Toxicological Information

Information on toxicological effects

Acute oral toxicity	No data available
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available
Skin corrosion/irritation	Irritant to skin and mucous membranes
Serious eye damage/eye irritation	Vapors may be irritating to the eyes
Respiratory or skin sensitization	May cause an allergic skin reaction
Germ cell mutagenicity	No data available
Carcinogenicity	
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.
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

Section 12 Ecological Information

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT & vPvB assessment	No data available

Section 13 Disposal Considerations

To the best of our knowledge, this product does not meet the definition of hazardous waste under U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended as an industry best practice. Follow applicable Federal, State, and local regulations.

Section 14 Transport Information

DOT: Not regulated as a dangerous good
IMDG: Not regulated as a dangerous good
IATA: Not regulated (less than 500 ml)

Section 15 Regulatory Information

US Federal Regulations

SARA 311/312 Hazards: See Section 2 Hazard Statements

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

SARA 313 Toxic Chemical: None listed

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)

Inventories

TSCA: All ingredients listed as active on the TSCA inventory

DSL: All components of this product are on the Canadian DSL

Section 16 Other Information

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