

Section 1 Identification

Product identifiers

Product names: Freeman F-Bond Thick

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

Identified uses: Cyanoacrylate adhesive For industrial use only

Details of the supplier of the safety data sheet

Freeman Manufacturing & Supply Company

1101 Moore Road, Avon, OH 44011

Phone: 1 800-321-8511

Email: contactus@freemansupply.com

Emergency telephone number

CHEMTREC 24 hour: (800) 424-9300

Section 2 Hazards Identification

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

Flammable liquids, Category 4

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

Combustible liquid.

Causes serious eye irritation.

Causes skin irritation.

May cause respiratory irritation.

Precautionary statements

Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

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.

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

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

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Section 3 Composition/Information on Ingredients

Mixture

| Hazardous Component | CAS Number | Concentration (%) |
|-----------------------|------------|-------------------|
| Ethyl-2-cyanoacrylate | 7085-85-0 | 70-90 |

Section 4 First Aid Measures

| | |
|---------------------------------|---|
| General advice: | Keep out of reach of children. Show this Safety Data Sheet to the medical attendant. |
| If inhaled: | Move person into fresh air. Keep patient warm and at rest. If not breathing, give artificial respiration. Consult a physician after significant exposure. |
| In case of skin contact: | Wash off immediately with soap and plenty of water. Call a physician if irritation develops or persists. Danger. Bonds skin and eyes in seconds. |
| 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

Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Suitable: Carbon dioxide, extinguishing powder or water spray.

Unsuitable: Water spray jet

Hazardous combustion products

Nitrogen oxides

Advice for firefighters

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 sections 7 and 8.

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. Allow to solidify. Pick up and transfer to properly labeled containers.

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

Store at ambient temperatures in tightly sealed containers.

Materials to avoid

Do not store together with oxidizing or self-igniting products.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

| Component | CAS Number | Value type | Control parameter / Permissible concentration | Basis |
|-----------------------|------------|------------|---|---------|
| Ethyl-2-cyanoacrylate | 7085-85-0 | PEL | 0.2 ppm 1.02 mg/m ³ | CAL PEL |
| | | TWA | 0.2 ppm | ACGIH |
| | | STEL | 1 ppm | ACGIH |

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.

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, 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 | Clear liquid, light yellow to light green in color |
| Odor | Characteristic, irritating |
| Odor threshold | No data available |
| pH | No data available |
| Melting point | No data available |
| Boiling point | No data available |
| Flash Point | 181°F (83°C) |
| 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 | 1500 cP |

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Section 10 Stability and Reactivity

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|--|--|
| Reactivity: | No specific test data related to reactivity available for this product |
| Chemical stability: | Stable under recommended storage conditions. |
| Possibility of hazardous reactions: | No dangerous reactions known |
| Hazardous decomposition: | May produce nitrogen oxides, sulfur oxides |

Section 11 Toxicological Information

| | |
|--|---------------------------------------|
| 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 (49 CFR): | Not regulated as a dangerous good in non-bulk packaging |
| UN Number: | 1993 |
| Proper Shipping Name: | Combustible liquid, n.o.s. (ethyl 2-cyanoacrylate) |
| Class: | CBL |
| Packing Group: | III |

Section 14 Transport Information

| | |
|--------------------------|-----------------------------------|
| ERG Code: | 128 |
| Marine pollutant: | no |
| UNRTDG: | Not regulated as a dangerous good |
| IMDG-Code: | Not regulated as a dangerous good |
| IATA-DGR: | Not regulated as a dangerous good |

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 (USA): All ingredients listed as active on the TSCA inventory

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

AICS (Australia): On the inventory, or in compliance with the inventory

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

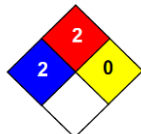
KECI (Korea): On the inventory, or in compliance with the inventory

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

NFPA:



HMIS III:

| | |
|------------------------|----------|
| HEALTH | 2 |
| FLAMMABILITY | 2 |
| PHYSICAL HAZARD | 0 |

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Date of Issue: December 1, 2015

Date of Revision: June 15, 2023