

**Section 1 Identification**

**Product identifiers**

Product names: Freeman F-Bond Thin, Freeman F-Bond Medium, Freeman F-Bond Thick

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

Identified uses: Adhesive

**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	
<b>H</b>	2
<b>F</b>	2
<b>R</b>	1
<b>PPE</b>	
Sec. 8	

**Section 2 Hazards Identification**

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

Eye Irritation, Category 2A

Skin Irritation, Category 2

Target Organ Toxicity, single exposure, Category 3

Skin Sensitization, Category 1

Flammable Liquids, Category 4

**GHS Label elements, including precautionary statements**



Signal word

Warning

**Hazard statements**

Combustible liquid.

Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

**Precautionary statements**

Keep away from flames and 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.

Contaminated work clothing must not be allowed out of the workplace.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Section 2 Hazards Identification continued**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 Call a POISON CENTER/doctor if you feel unwell.  
 Wash contaminated clothing before reuse.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 In case of fire: Use for extinction: CO2, powder or water spray.  
 IF ON SKIN: Wash with plenty of water.  
 Take off contaminated clothing and wash it before reuse.  
 Store locked up.  
 Store in a well-ventilated place. Keep container tightly closed. Keep cool.  
 Dispose of contents/container in accordance with local/regional/national/international regulations. Wear protective gloves/eye protection/face protection.

**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	50-100

**Section 4 First Aid Measures**
**Description of first aid measures**
**If inhaled**

Move person into fresh air. If not breathing, give artificial respiration.  
 Prolonged or repeated exposure may cause allergic reactions in sensitive individuals.

**In case of skin contact**

Wash off with soap and plenty of water, rinse thoroughly.

**In case of eye contact**

Flush eyes with water for at least 15 minutes. Get medical attention if symptoms persist.

**If swallowed**

Seek medical attention

**Notes to physician:** Symptomatic treatment and supportive therapy as indicated.

**Section 5 Fire-Fighting Measures**
**Suitable extinguishing media**

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use firefighting measures that suit the environment.

**Special hazards arising from the substance or mixture**

Nature of decomposition products not known.

**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. Keep unprotected persons away.  
 Ensure adequate ventilation

#### Environmental precautions

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
 Dispose of contaminated material as waste in accordance with federal state and local regulations.  
 Ensure adequate ventilation.

### Section 7 Handling and Storage

#### Precautions for safe handling

Open and handle receptacle with care.  
 Ensure good ventilation/exhaustion at the workplace.  
 Prevent formation of aerosols.  
 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 heat this material above the flash point.  
 Store away from oxidizing agents.

### Section 8 Exposure Controls/Personal Protection

#### Control parameters

##### Components with workplace control parameters

Ethyl-2-cyanoacrylate	TLV Long-term value: 1 mg/m <sup>3</sup> , 0.2 ppm
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#### Exposure controls

##### 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.

#### Personal protective equipment

##### Eye/face protection

Use safety glasses equipped with side shields.

#### Skin protection

##### Hand Protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of gloves: Nitrile rubber, NBR.

##### 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.

**Section 8 Exposure Controls/Personal Protection**
**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**

<b>Appearance</b>	Clear, opaque liquid
<b>Odor</b>	Characteristic, intensely irritating
<b>Odor Threshold</b>	1 ppm
<b>pH</b>	No data available
<b>Melting Point</b>	No data available
<b>Boiling point</b>	149°C (300°F)
<b>Flash Point</b>	93°C (199°F)
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower flammability</b>	No data available
<b>Vapor pressure</b>	<0.2 mm Hg
<b>Vapor density</b>	No data available
<b>Specific gravity at 20°C</b>	1.07 g/cm <sup>3</sup> (8.929 lb/gal)
<b>Relative density (g/cc)</b>	No data available
<b>Water Solubility</b>	Not miscible
<b>Coefficient: n-octanol/ water</b>	No data available
<b>Auto-ignition temperature</b>	485°C
<b>Viscosity</b>	No data available
<b>Explosive Properties</b>	None
<b>Oxidizing Properties</b>	None
<b>Solvent content, organic solvents</b>	0.0%
<b>Solids content,</b>	<20 grams/liter Per SCAQMD Method 316B

**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

**Conditions to avoid**

Moisture, exposure to high temperatures

**Incompatible materials**

Water, alcohols, amines, and alkalis

**Hazardous decomposition products**

Carbon monoxide and carbon dioxide, nitrogen oxides

Trace amounts of the following may be formed: Hydrogen cyanide (prussic acid)

**Section 11 Toxicological Information**
**Information on toxicological effects**

<b>Acute Oral toxicity</b>	No data available
<b>Acute Inhalation toxicity</b>	No data available
<b>Acute Dermal toxicity</b>	No data available
<b>Skin corrosion/irritation</b>	Irritant to skin and mucous membranes.
<b>Serious eye damage/eye irritation</b>	Vapors may be irritating to the eyes.
<b>Respiratory or skin sensitization</b>	May cause an allergic skin reaction
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	
<b>IARC</b>	9011-14-7 poly (methyl methacrylate)
<b>NTP</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity</b>	
- single exposure	No data available
<b>Specific target organ toxicity</b>	
- repeated exposure	No data available

**Section 12 Ecological Information**

<b>Toxicity</b>	No data available
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Results of PBT &amp; vPvB assessment</b>	No data available

**Section 13 Disposal Considerations**

Use safety containers for disposal. Contact a licensed contractor for detailed recommendations. Follow applicable Federal, State, and local regulations.

**Section 14 Transport Information**

**DOT:** Not Regulated  
**IMDG:** Not Regulated  
**IATA:** Less than 500 ml not regulated

**Section 15 Regulatory Information**
**US Federal Regulations**

SARA 313 Toxic Chemical: None listed

TSCA Inventory Status: All ingredients listed on TSCA inventory requirements

**State Regulations**

California Proposition 65: Not listed

**Canada Domestic Substance List (DSL)**

All components of this product are on the DSL or are exempt from DSL requirements.

**Section 16 Other Information****Disclaimer**

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