

**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: 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)**

Eye Irritation, Category 2A

Skin Irritation, Category 2

Specific Target Organ Toxicity, Single Exposure, Category 3 (Respiratory)

**GHS Label Elements**



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.

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

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

**Section 3 Composition/Information on Ingredients**

**Mixture**

<b>Hazardous Component</b>	<b>CAS Number</b>	<b>Concentration (%)</b>
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 <sup>3</sup>	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**

<b>Appearance</b>	Clear liquid, light yellow to light green in color
<b>Odor</b>	Characteristic, irritating
<b>Odor threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash Point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	Not classified as a flammable hazard
<b>Upper/lower flammability</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Density</b>	1.06 g/cm <sup>3</sup>
<b>Water Solubility</b>	No data available
<b>Coefficient: n-octanol/ water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Viscosity</b>	250 cP

**Section 10 Stability and Reactivity**

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

**Section 11 Toxicological Information**

<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>	<p><b>IARC:</b> No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.</p> <p><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.</p> <p><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.</p>
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity</b>	
- single exposure	No data available
- 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**

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**

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

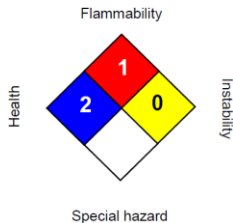
SARA 311/312 Hazards: See Section 2 Hazard Statements  
 SARA 302: This material does not contain any components with a section 302 EHS TPQ.  
 SARA 313 Toxic Chemical: None listed  
 Clean Air Act: This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act 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  
 TSCI (Taiwan): On the inventory, or in compliance with the inventory

**Section 16 Other Information**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

**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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