

Section 1 Identification

Product identifiers

Product names: Freeman J-Bond Medium Adhesive

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

Identified uses: Alkyl Cyanoacrylate Ester Instant 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 (440) 934-1902

contactus@freemansupply.com

24 Hour Emergency Contact

CHEMTREC 24 hour: (800) 424-9300

Section 2 Hazards Identification

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

Flammable liquid, Category 4

Eye Irritation, Category 2A

Skin Irritation, Category 2

Skin Sensitization, Category 1

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 an allergic skin reaction.

May cause respiratory irritation.

Precautionary statements

Prevention: Keep away from heat/sparks/open flames, and sources of ignition.

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.

Response: 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.

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

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

Section 3 Composition/Information on Ingredients

Mixture

Hazardous Components	CAS Number	Percent (%)
Ethyl-2-cyanoacrylate	7085-85-0	90-99
Poly(methyl methacrylate)	9011-14-7	1-10

Section 4 First Aid Measures

If inhaled: Move person into fresh air. If breathing is difficult, give oxygen. 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. Do not attempt to remove material from skin or remove contaminated clothing, as the bonded skin can be easily torn. Flex bonded skin parts while washing with large volumes of soap and water to slowly release bonded areas. Consult a physician if irritation develops or persists.

In case of eye contact: Flush eyes immediately with water. Rinse under eyelids. Seek medical advice. Cured adhesive will not bond well to eye surface, but corneal damage from abrasion may result. Do not wear contact lenses when working with this material.

If swallowed: Immediate bonding of mouth will occur. Seek medical attention.

Section 5 Fire-Fighting Measures

Suitable extinguishing media: Alcohol-resistant foam, dry chemical or carbon dioxide, 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.

Fire & Explosion Hazards: Cloth used to wipe up spills may cause rapid polymerization that could generate sufficient heat to ignite the cloth. Combustion will evolve toxic and irritating vapors.

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.

J-Bond Medium

Section 7 Handling and Storage

Conditions for safe storage, including any incompatibilities

Store at ambient temperatures (5 to 10°C) in tightly sealed containers. Do not store at temperatures above 25°C. Keep away from heat, sources of ignition, and direct sunlight. Do not store together with oxidizing or self-igniting products. Keep away from moisture.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

Component	CAS Number	Value type (Form of exposure)	Control parameter / Permissible concentration	Basis
Ethyl-2-cyanoacrylate	7085-85-0	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, 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	Vapor density (air = 1)	>1
Odor	Pungent, irritating	Bulk density	8.75 lb./gallon
Odor threshold	No data available	Specific Gravity	1.05 ± 0.01
pH	No data available	Water Solubility	Insoluble
Melting point	No data available	Soluble in	Nitroethane, Methyl Ethyl
Boiling point	195°C		Ketone, Acetone
Flash Point	83°C (Seta closed cup)	Coefficient: n-octanol/ water	No data available
Evaporation rate	No data available	Auto-ignition temperature	No data available
Flammability	Not classified a	Viscosity	2-100 cP @ 25°C
Upper/lower flammability	No data available	Volatiles	Nil
Vapor pressure	0.3 mmHg		

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: Decomposes upon heating to release toxic fumes of nitrogen oxides, carbon monoxide and carbon dioxide

Section 11 Toxicological Information

Information on toxicological effects

Acute oral toxicity	Ingestion may cause irritation of the gastrointestinal tract. On contact, immediate bonding of the mouth can occur.
Acute inhalation toxicity	Vapor, if generated, can cause irritation of the eyes, nose and respiratory tract. Avoid breathing vapors or mists.
Acute dermal toxicity	Irritating to the skin. On contact, immediate bonding of the skin will occur.
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
Specific target organ toxicity - repeated exposure	No data available
Aspiration toxicity	No data available

Section 12 Ecological Information

Ecotoxicity	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/IMDG/IATA: Not regulated as a dangerous good (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 Section 112 (40 CFR 61): This product does not contain any hazardous air pollutants (HAP).

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

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.