

Section 1 Identification

Product identifiers

Product names: Freeman F-Bond Flex Black 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)

Eye Irritation, Category 2A

Skin Irritation, Category 2

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

GHS Label elements, including precautionary statements



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.

Safety Data Sheet

Freeman F-Bond Flex Black Thick

Section 3 Composition/Information on Ingredients

Mixture

Hazardous Component	CAS Number	Concentraion (%)
Ethyl-2-cyanoacrylate	7085-85-0	70-90
Carbon black	1333-86-4	0.1-1.0

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.

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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
Carbon black*	1333-86-4	PEL	3.5 mg/ m ³	CAL PEL
		TWA (Inhalable particulate matter)	3 mg/ m ³	ACGIH
		TWA	3.5 mg/ m ³	ACGIH

*During normal handling of the product, this substance is encapsulated within the product and will not present a cancer exposure risk.

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	Black 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	181°F (83°C)
Evaporation rate	No data available

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Section 9 Physical and Chemical Properties

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

Section 10 Stability and Reactivity

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	<p>IARC: 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>NTP: 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>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.</p>
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

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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
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

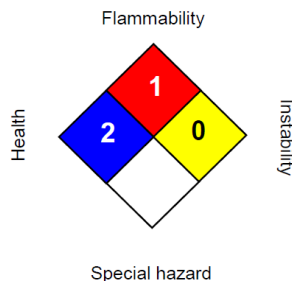
SARA 311/312 Hazards: See Section 2 Hazard Statements
 SARA 302: This material does not contain any components with a section 302 EHS TPQ.
 SARA 313 Toxic Chemical: None listed
 Clean Air Act: This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 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	1
PHYSICAL HAZARD	0

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

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.

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