

Safety Data Sheet



Freeman F-Bond Flex Black

Date of Preparation: December 1, 2015

Section 1 Chemical Product and Company Identification

1.1 Product identifiers

Product name: Freeman F-Bond Flex Black

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

Identified uses: N/A

1.3 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

1.4 Emergency telephone number

Emergency Phone (800) 424-9300

HMIS

H	2
F	2
R	1

PPE

Sec. 8

Section 2 Hazards Identification

2.1 Classification of the substance or mixture

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

Eye Irritation, Category 3

Skin Irritation, Category 3

Combustible Liquids, Category 4

2.2 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.

Not classified as an environmental hazard under GHS criteria.

Freeman F-Bond Flex Black

Section 2 Hazards Identification cont.

Precautionary statements

Cyanoacrylate.

Danger.

Bonds to skin and eyes in seconds.

Keep out of reach of children.

Prevention

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

Keep container tightly closed when not in use.

Wear protective gloves/eye protection/face protection.

Avoid breathing mist, vapors or spray.

Do not eat, drink or smoke when using this product.

Response

If on skin: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

If in eyes: Rinse continuously with water for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

If inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing.

Contact a doctor/physician if not feeling well.

Take off contaminated clothing and wash before reuse.

Storage

Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents and container to an appropriate waste site in accordance with local and national regulations.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None.

Section 3 Composition/Information on Ingredients

3.1 Substance

Ingredient Name	CAS Number
Ethyl-2-Cyanoacrylate	7085-85-0

Section 4 First Aid Measures

4.1 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.

Be very cautious in gently peeling the skin apart as in removing a bandage from the skin; pulling the skin apart may rip the skin.

Freeman F-Bond Flex Black

Section 4 First Aid Measures cont.

In case of eye contact

Flush eyes with water for at least 15 minutes. Get medical attention immediately.

If swallowed

Adhesive may adhere to the inside of the mouth. Saliva will lift adhesive in 1-2 days. Do not swallow solid adhesive which is non-toxic.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact: Causes serious eye irritation. Will cause eyelids to bond. Will cause excessive tearing.

Inhalation: May cause irritation.

Skin contact: Bonds to skin in seconds. May cause skin irritation. May cause sensitization. Very large amounts will burn the skin due to heat generated by setting up.

4.3 Indication of any immediate medical attention and special treatment needed

Inhalation: No specific data.

Ingestion: No specific data.

Skin contact: Adverse symptoms may include the following:

Bonding of skin

Irritation

Redness

Eye contact: Adverse symptoms may include the following:

Bonding of eyelids

Pain or irritation

Watering

Redness

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

Section 5 Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, or mist.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Ventilate area of spill. Flood area with water to polymerize. Absorb with sand/earth and dispose in accordance with local, state, and federal regulations.

Freeman F-Bond Flex Black

Section 7 Handling and Storage

7.1 Precautions for safe handling

Use normal precautions when handling flammable materials. Do not breathe fumes or vapor.
Do not allow material to contact skin.
Provide appropriate exhaust ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Store at ambient temperatures in closed containers. Do not heat this material above the flash point.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

Ingredient	OSHA		ACGIH	
	PEL	STEL	TWA	STEL
Ethyl-2-Cyanoacrylate	none estab.	none estab.	0.2 ppm	none estab.

8.2 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. An eye wash station and safety shower should be located near the workstation.

8.3 Personal protective equipment

Eye/face protection

With product at ambient temperatures, use safety glasses equipped with side shields.

8.4 Skin protection

Hand Protection

With product at ambient temperatures, use disposable nitrile gloves.
Contaminated gloves should be replaced.

Body Protection

Prevent skin contact when handling material.

8.5 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.

8.6 Safety Stations

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

8.7 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.

Freeman F-Bond Flex Black

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Black liquid
Odor	Sharp, irritating
Odor Threshold	1 ppm
pH	No data available
Melting Point	No data available
VOC Content	No data available
Initial boiling point & boiling range	No data available
Flash Point (COC)	>85°C (>185°F)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor Pressure	No data available
Vapor density	No data available
Relative density (g/cc)	No data available
Water Solubility	No data available
Coefficient: n-octanol/ water	No data available
Auto-ignition temperature	No data available
Viscosity	No data available
Explosive Properties	None
Oxidizing Properties	None
% Volatile	No data available

Section 10 Stability and Reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Possible polymerization reaction in the presence of water amines, alkalis and alcohols.
Will react quickly with the production of heat.

10.4 Conditions to avoid

Heat and open flames.

10.5 Incompatible materials

Water, alcohols, amines, and bases.

10.6 Hazardous decomposition products

No data available

Section 11 Toxicological Information

11.1 Information on toxicological effects

Acute Oral toxicity	Low toxicity
Acute Inhalation toxicity	Low toxicity
Acute Dermal toxicity	Low toxicity
Skin corrosion/irritation	Mild skin irritant
Serious eye damage/eye irritation	Bonds to skin and eyes in seconds. Eye irritant.

Freeman F-Bond Flex Black

Section 11 Toxicological Information cont.

Respiratory or skin sensitization	Possible skin sensitizer
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.
ACGIH	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	Not expected to be a hazard
Specific target organ toxicity	
- single exposure	Respiratory and skin
Specific target organ toxicity	
- repeated exposure	Respiratory and skin

Section 12 Ecological Information

12.1 Toxicity	No data available
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Results of PBT & vPvB assessment	No data available

Section 13 Disposal Considerations

13.1 Disposal	Use safety containers for disposal. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.
----------------------	---

Section 14 Transport Information

DOT: Not Regulated
IMDG: Not Regulated
IATA: Not Regulated (less than 500 ml)

Section 15 Regulatory Information

15.1 US Federal Regulations
RCRA Hazardous Waste Number (40 CFR 261.33): Not listed
RCRA Hazardous Waste Classification (40 CFR 261): Not classified
CERCLA Hazardous Substance (40 CFR 302.4): Listed/unlisted specific per RCRA Sec. 3001
SARA 311/312 Codes: Acute Health, Fire, Delayed Health, Reactive
SARA Toxic Chemical (40 CFR 372.65): None
TSCA Inventory Status: All ingredients listed on TSCA inventory requirements
15.2 State Regulations
California Proposition 65: Not listed

Freeman F-Bond Flex Black

Section 16 Other Information

16.1 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.