

Section 1 Identification

Product identifiers

Product name: F-Bond Remover

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

Identified uses: Industrial Use

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

24 Hour Emergency Phone Number: (800) 424-9300 CHEMTREC

Section 2 Hazards Identification

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

Flammable Liquids, Category 3

Carcinogenicity, Category 2

Acute Oral Toxicity, Category 4

GHS Label elements



Signal word

Warning

Hazard statements

Flammable liquid and vapor.

Suspected of causing cancer.

Harmful if swallowed.

Precautionary statements

Prevention

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

Keep container tightly closed when not in use.

Do not breathe fumes or vapors.

Wash skin thoroughly after handling.

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

Use only in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Response

If on skin: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

Section 2 Hazards Identification continued

If inhaled: Remove person to fresh air and call doctor/physician if not feeling well.

If in eyes: Rinse continuously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice/attention.

In case of fire, use alcohol resistant foam, dry chemical, carbon dioxide (CO₂) or dry sand to extinguish.

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.

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

None known

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Weight Concentration %
Nitromethane	75-52-5	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.

In case of skin contact

Wash off with soap and plenty of water. If skin irritation continues, consult a doctor.

In case of eye contact

Remove contact lenses, if worn. Flush opened eyes thoroughly with water. If irritation persists, get medical assistance.

If swallowed

Immediately call a physician. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Do not induce vomiting.

Indication of any immediate medical attention and special treatment needed

Symptoms of poisoning may even occur after several hours; therefore there should be medical observation for at least 48 hours after the accident.

Section 5 Fire-Fighting Measures
Extinguishing media

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

Unsuitable extinguishing media: Do not use water

Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating and in case of fire.

Hazardous Combustion Products

Carbon oxides, poisonous gases.

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 Accidental Release Measures
Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas.
 Remove all sources of ignition.
 Ensure adequate ventilation.
 Remove all non-essential people from the area.
 For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Absorb with liquid binding material.
 Sweep up and shovel, using non-sparking tools.
 Keep in suitable, closed containers for disposal.

Section 7 Handling and Storage
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.

Conditions for safe storage, including any incompatibilities

Store at ambient temperatures in closed containers. This material can catch fire if overheated. Do not heat this material above the flash point. Keep away from flame and open electrical coils. Do not store with oxidizing or acidic materials.

Section 8 Exposure Controls/Personal Protection
Components with workplace control parameters

Ingredient	OSHA		ACGIH	
	PEL	STEL	TWA	STEL
Nitromethane	100 ppm	None established	20 ppm	None established

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, or goggles.

Skin protection
Hand Protection

Use impervious gloves. Nitrile rubber, or NBR suggested. Consult glove manufacturer for suitability. Contaminated gloves should be replaced.

Body Protection

Prevent skin contact when handling material.

Section 8 Exposure Controls/Personal Protection continued
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	Clear liquid
Odor	Solvent
Odor Threshold	No data available
pH	No data available
Melting Point	-29.2°C (-21°F)
VOC Content	No data available
Boiling Point	100°C (212°F)
Flash Point	35°C (95°F)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Lower Explosion Limit	7.1 Vol %
Upper Explosive Limit	63 Vol %
Vapor Pressure	27 mmHg
Vapor density	No data available
Density (g/cm³)	1.138
Water Solubility	5 g/l
Coefficient: n-octanol/water	No data available
Ignition temperature	415°C (779°F)
Auto-ignition temperature	Product is not self-igniting
Viscosity	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available
% Volatile	No data available

Section 10 Stability and Reactivity

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None.
Conditions to avoid	Heat and open flames.
Incompatible materials	None known.
Hazardous decomposition	Thermal oxidative decomposition can produce carbon monoxide and carbon dioxide.

Section 11 Toxicological Information

Information on toxicological effects

Acute Oral toxicity	LD ₅₀ (rat) 940 mg/kg
Acute Inhalation toxicity	No data available
Acute Dermal toxicity	No data available
Respiratory or skin sensitization	Not a skin sensitizer
Germ cell mutagenicity	No data available
Carcinogenicity	
IARC	Nitromethane is considered class 2B suspect human carcinogen.
NTP	Nitromethane is reasonably anticipated to be a human 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 hazard	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

Section 13 Disposal Considerations

Disposal

Use safety containers for disposal. Contact a licensed waste management company for detailed recommendations. Follow applicable Federal, state, and local regulations.

Section 14 Transport Information

DOT: Shipping Name: Nitromethane
Hazard Class: 3
ID No.: UN 1261
Packing Group: II

IATA: Shipping Name: Nitromethane
Hazard Class: 3
ID No.: UN 1261
Packing Group: II

IMDG: Shipping Name: Nitromethane
Hazard Class: 3
ID No.: UN 1261
Packing Group: II

Section 15 Regulatory Information

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: Chronic Health Hazard, Fire Hazard, Acute Health Hazard

SARA 313 Toxic Chemical Listings: All ingredients are listed

TSCA Inventory Status: All ingredients listed on TSCA inventory requirements

US State Regulations

California Proposition 65: WARNING:  This product can expose you to chemicals including nitromethane, which is known to the State of California to cause cancer.

For more information, go to www.P65Warnings.ca.gov.

Section 16 Other Information

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