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HAZARD COMMUNICATION STANDARD (HCS), 29 CFR 1910.1200 (g).

SECTION I IDENTIFICATION

IDENTITY: WAX-KLEEN, WAX-GLOSS, WAX-BRITE

REVISION DATE: 01-01-17

MANUFACTURER'S NAME: J & B ENTERPRISES

ADDRESS: 3332 Sage Brush Place

YUKON, OK 73099

PHONE NUMBER: 405-640-0981

SECTION II HAZARD(S) IDENTIFICATION

POTENTIAL ACUTE HEALTH: Very slightly dangerous in case of skin contact irritant .of eye contact (irritant), of ingestion, of inhalation. This product may irritate eyes and skin upon contact.
POTENTIAL CHRONIC HEALTH EFFECTS: Carcinogenic effects: None by ACGIH, IARC, NTP, And OSHA. Mutagenic effects: NA Teratogenic effects: NA Toxicity of the product to reproductive system: NA Repeated or prolonged exposure to the substance can produce target organ damage.

SECTION III COMPOSITION AND INFORMATION ON INGREDIENTS

Name:	Terpene Hydrocarbons	CAS# 5989-27-5.	%BY VOLUME >9
TLV/PEL	NA	LC/LD NA	

SECTION IV FIRST-AID MEASURES

EYE CONTACT: Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

SKIN CONTACT: If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands, gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothes before reusing.

SECTION V FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USE): 115 F OCM
FLAMMABLE LIMITS: LEL: 7 UEL: 6.1
EXTINGUISHING MEDIA: Foam, dry powder carbon dioxide
SPECIAL FIRE FIGHTING PROCEDURES: Avoid use of water as it may spread flame. Class b fire procedures.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep away from sparks & open flame.

SECTION VI ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

LARGE SPILL: Combustible liquid, insoluble in water. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Call for assistance on disposal.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE**PRECAUTIONS TO BE TAKEN
IN HANDLING AND STORAGE:**

Store in original shipping containers. Keep closed when not in use. Protect from heat and cold. Shelf life 1 year.

SECTION VIII CONTROL MEASURES**RESPIRATORY PROTECTION:**

Not normally required. If vapor level becomes high use self contained mask.

VENTILATION:

Local exhaust should be adequate.

MECHANICAL:

NA

PROTECTIVE GLOVES:

Chemical resistant

OTHER PROTECTIVE CLOTHING**OR EQUIPMENT:**

Usually not needed.

WORK/HYGIENIC PRACTICES:

Do not eat, drink or smoke in work area. Wash hands after handling.

SECTION IX PHYSICAL/CHEMICAL CHARACTERISTICS**BOILING POINT :>340 F**

SPECIFIC GRAVITY(Water=1) .88

VAPOR PRESSURE (mm Hg) 5@100 C

MELTING POINT: NA

VAPOR DENSITY (AIR=1): 4.7

EVAPORATION RATE: 1

SOLUBILITY IN WATER:

Emulsifies (Butyl Acetate =1)

APPEARANCE AND ODOR:

Orange color with fresh citrus fragrance

SECTION X STABILITY AND REACTIVITY**STABILITY:**

Stable

CONDITIONS TO AVOID:

Strong oxidizing agents, flame, elevated temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID):

See above.

HAZARDOUS DECOMPOSITION**OR BYPRODUCTS:**

Unknown other than oxides of carbon.

HAZARDOUS POLYMERIZATION:

May Occur: X Won't Occur:

Avoid polymerization catalysts such as aluminum chloride.

SECTION XI TOXICOLOGICAL INFORMATION**ROUTES OF ENTRY:**

Absorbed through skin. Ingestion.

TOXICITY TO ANIMALS:

LD50: NA

LC50: NA

CHRONIC EFFECTS ON HUMANS:

Very slightly to slightly dangerous in case of skin contact (irritant), of eye contact (irritant) of ingestion, of inhalation.

SECTION XII ECOLOGICAL INFORMATION**ECOLOGICAL INFORMATION:**

Not established

BIODEGRADABILITY:

This product is biodegradable

BIOACCUMULATION:

This product is not expected to bioaccumulate

SOIL MOBILITY:

This product is mobile in soil

OTHER ECOLOGICAL HAZARDS:

None known

SECTION XIII DISPOSAL CONSIDERATION**WASTE DISPOSAL:**

Keep out of reach of children

RCRA STATUS:

Waste likely considered D001 (ignitable waste), under RCRA, however product should be fully characterized prior to disposal (40 CFR 261)

"The information herein is given in good faith, but no warranty, express or implied, is made."

Safety Data Sheet

2370 Pink Jewelry Wax

Date of Preparation: June 1, 2015

Section 1 Chemical Product and Company Identification

1.1 Product identifiers

Product name: 2370 Pink Jewelry Wax

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	0
F	1
R	0
PPE	
Sec. 8	

Section 2 Hazards Identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

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

None.

Section 3 Composition/Information on Ingredients

3.1 Substance

Proprietary mixture of waxes.

No ingredients are hazardous according to OSHA criteria.

No components need to be disclosed according to the applicable regulations.

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.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

2370 Pink Jewelry Wax

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 dust formation. Avoid breathing vapors, mist or gas.

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

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7 Handling and Storage

7.1 Precautions for safe handling

Use normal precautions when handling hot molten liquid solutions. Do not breathe fumes or vapor from heated material. Do not allow hot material to contact skin. Provide appropriate exhaust ventilation at places where dust is formed. Try to avoid creating dust.

7.2 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.

No chemical incompatibilities.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

Wax Fume ACGIH STEL: 2 mg/m³ NIOSH TWA: 2 mg/m³

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 (see below). An eye wash station and safety shower should be located near the workstation.

8.3 Personal protective equipment

Eye/face protection

Use a full-face shield and safety glasses if handling heated material. With product at ambient temperatures, use safety glasses equipped with side shields.

2370 Pink Jewelry Wax

Section 8 Exposure Controls/Personal Protection cont.

8.4 Skin protection

Hand Protection

When handling product at elevated temperatures, use heat-resistant gloves. With product at ambient temperatures, use disposable nitrile, neoprene or butyl rubber gloves with repeated or prolonged use.

Body Protection

Prevent skin contact when handling heated material. Use insulated, heat resistant clothing such as apron or slicker suit.

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 dust, 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

9.1 Information on basic physical and chemical properties

Appearance	Pink solid
Odor	Mild
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
Ring and Ball Softening Point	156°F
VOC Content	0
Initial boiling point & boiling range	No data available
Flash Point(COC)	465°F (240°C)
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)	0.9 ±0.05
Water Solubility	Insoluble
Coefficient: n-octanol/ water	No data available
Auto-ignition temperature	No data available
Viscosity	290 cps @ 170°F
Explosive Properties	None
Oxidizing Properties	None
% Volatile	0

2370 Pink Jewelry Wax

Section 10 Stability and Reactivity

10.1 Reactivity

None.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None.

10.4 Conditions to avoid

Heat and open flames.

10.5 Incompatible materials

None.

10.6 Hazardous decomposition products

Thermal oxidative decomposition can produce CO and CO₂.

Section 11 Toxicological Information

11.1 Information on toxicological effects

Acute toxicity No data available

Inhalation No data available

Dermal No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitization No data available

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 probable, possible or confirmed human 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 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

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

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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

14.1 Shipping Name:

DOT: Not regulated

TDG: Not regulated

IMDG: Not regulated

IATA: Not regulated

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: No hazard categories identified

SARA Toxic Chemical (40 CFR 372.65): No components were identified

TSCA Inventory Status: All ingredients listed on TSCA inventory requirements

15.2 State Regulations

This product is not known to contain any components for which the State of California has found to cause cancer, birth defects or other reproductive harm.

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.

Safety Data Sheet

Castaldo® Jewelry Mold Release Spray



SDS Revision Date:

12/05/2014

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Identity

Castaldo® Jewelry Mold Release Spray

Alternate Names

Castaldo® Jewelry Mold Release Spray

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

Intended use

See Technical Data Sheet.

Application Method

See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name

F. E. Knight Inc.
120 Constitution Blvd.,
Franklin, MA 02038. USA

Emergency

24 hour Emergency Telephone No.

Chem-Tel: 1-800-255-3924 or 617-969-5399

Customer Service: F. E. Knight Inc.

508-520-1666

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Press. Gas;H280

Contains gas under pressure; may explode if heated.

Simple Asphyxiant

May displace oxygen and cause rapid suffocation.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Danger

H280 Contains gas under pressure; may explode if heated.

May displace oxygen and cause rapid suffocation.

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[Prevention]:

No GHS prevention statements

[Response]:

No GHS response statements

[Storage]:

P410+403 Protect from sunlight. Store in a well ventilated place.

[Disposal]:

No GHS disposal statements

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
1,1-difluoroethane (HFC-152A) CAS Number: 0000075-37-6	50 - 75	Flam. Gas 1;H220 Liquified Gas;H280 STOT SE 3;H336 Simple Asphyxiant	[1]
Dimethyl ether CAS Number: 0000115-10-6	25 - 50	Flam. Gas 1;H220 Press. Gas;H280	[1]
1,1,1,2-Tetrafluoroethane (HFC-134a) CAS Number: 0000811-97-2	1.0 - 10	Liquified Gas;H280 Simple Asphyxiant	[1]
Aliphatic Hydrocarbon CAS Number: 0064742-49-0	1.0 - 10	Asp. Tox. 1;H304	[1]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

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Skin Wash affected area with soap and water. Remove and launder contaminated clothing before re-use. Treat as frostbite. If irritation develops or if there is evidence of tissue damage, get medical attention.

Ingestion If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview Liquid and gas under pressure, overheating and overpressurizing may cause gas release or rupturing of container. May decompose on contact with flames or extremely hot metal surfaces to produce toxic and corrosive products. Vapor reduces oxygen available for breathing and is heavier than air. Harmful if inhaled and may cause heart irregularities, unconsciousness or death. Liquid contact with eyes or skin may cause frostbite.

Potential Health Effects Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. As with most liquefied gases, contact with rapidly volatilizing liquid or cold vapor can cause frostbite to any tissue. High vapor concentrations are irritating to the eyes and respiratory tract and may result in central nervous system effects such as headache, dizziness, anesthesia, drowsiness, and in severe exposure, loss of consciousness and death. The dense vapor of this material may reduce the available oxygen for breathing and produce symptoms such as headache, dizziness, drowsiness, cyanosis and lack of muscle control followed by collapse. Prolonged exposure to an oxygen-deficient atmosphere may be fatal. Inhalation of this material may cause an increase in the sensitivity of the heart to adrenaline, which could result in irregular or rapid heartbeats and reduced heart function. Workers with heart disease or compromised heart function should limit exposure to this material. See section 2 for further details.

5. Fire-fighting measures

5.1. Extinguishing media

Dry chemical extinguisher (B-C), Water.

Use of dry chemical, foam, or CO₂; water may be ineffective but should be used to keep exposed containers cool. Stop release of materials if possible. Avoid accumulation of unburned materials. Remove personnel in general area.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Hydrogen fluoride, hydrogen chloride, carbon monoxide carbon dioxide and chlorine.

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

5.3. Advice for fire-fighters

Specific hazards during Firefighting: Container may rupture or explode under fire conditions. Hazardous decomposition products may be formed (see reactivity data in section 9). Vapors are heavier than air and may accumulate in low areas. Vapors confined in a poorly ventilated area may be ignited by a spark or flame. Vapors may travel considerable distances to ignition sources. Under fire conditions, empty containers retain product residue and can be dangerous.

Special protective Equipment for firefighters: In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and protective suit. No unprotected exposed skin areas.

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ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Immediately evacuate personnel to safe areas. Avoid breathing vapors. Remove all sources of ignition. Vapors may be heavier than air and can cause suffocation by reducing oxygen available for breathing. Ensure adequate ventilation.

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.
Prevent further discharge, if it can be done safely.
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet.
Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Contain spillage and then collect with non-combustible absorbent material (e.g. sand, earth, vermiculite) and place in container for disposal according to local and national regulations

7. Handling and storage

7.1. Precautions for safe handling

Handle with care. For industrial use only. Keep out of reach of children. Do not get in eyes, on skin or on clothing. Do not use in areas without adequate ventilation. Do not breathe vapors or spray mist. If ventilation is not sufficient, wear proper respiratory equipment. Advice on protection against fire and explosion:

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Contents are under pressure and some components may burn. Do not store or use near ignition sources, do not expose to open flame or temperatures above 120°F.

Incompatible materials: Finely divided metals. Can react violently if in contact with alkali or alkaline earth metals such as sodium, potassium or barium.

Read label precautions; do not remove or deface label. Keep containers tightly closed in a dry, cool and well-ventilated area, or not store near ignition sources. Do not store at temperatures above 120°F. Keep out of direct sunlight. See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

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8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000075-37-6	1,1-difluoroethane (HFC-152A)	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0000115-10-6	Dimethyl ether	OSHA	No Established Limit
		ACGIH	TWA: 1000 ppm
		NIOSH	No Established Limit
		Supplier	No Established Limit
0000811-97-2	1,1,1,2-Tetrafluoroethane (HFC-134a)	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0064742-49-0	Aliphatic Hydrocarbon	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000075-37-6	1,1-difluoroethane (HFC-152A)	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000115-10-6	Dimethyl ether	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000811-97-2	1,1,1,2-Tetrafluoroethane (HFC-134a)	OSHA	Select Carcinogen: No

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12	(HFC-134a)	NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0064742-49-0	Aliphatic Hydrocarbon	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes

Wear safety glasses, with side-shields, chemical splash goggles, and/or full-face shield where there is potential for eye contact. An eyewash fountain should be located in areas where the product is used.

Skin

Wear overalls to keep skin contact to a minimum. Avoid skin contact. Use chemically resistant gloves.

Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

Safety showers and eye wash stations should be provided in areas where this product is used. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Clear Colorless Liquid, under pressure
Odor	slight sweet ether-like
Odor threshold	Not Measured
pH	NA
Melting point / freezing point	NA
Initial boiling point and boiling range	NA
Flash Point	NA
Evaporation rate (Ether = 1)	NA
Flammability (solid, gas)	NA
Upper/lower flammability or explosive limits	Lower Explosive Limit: NA Upper Explosive Limit: NA
Vapor pressure (Pa)	69 PSIG @70 F

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Vapor Density	2.6 (AIR=1)
Specific Gravity	NA
Solubility in Water	Insoluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	NA
Decomposition temperature	NA
Viscosity (cSt)	NA
VOC %	NA
Form	Aerosol, in cans

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Do not expose to heat or store at temperature above 120°F. Avoid all ignition sources.

10.5. Incompatible materials

Finely divided metals. Can react violently if in contact with alkali or alkaline earth metals such as sodium, potassium or barium.

10.6. Hazardous decomposition products

Hydrogen fluoride, hydrogen chloride, carbon monoxide carbon dioxide and chlorine.

11. Toxicological information

Acute toxicity

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Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
1,1-difluoroethane (HFC-152A) - (75-37-6)	No data available	No data available	No data available	No data available	No data available
Dimethyl ether - (115-10-6)	No data available	No data available	308.00, Rat - Category: NA	No data available	No data available
1,1,1,2-Tetrafluoroethane (HFC-134a) - (811-97-2)	No data available	No data available	No data available	No data available	No data available
Aliphatic Hydrocarbon - (64742-49-0)	5,000.00, Rat - Category: 5	3,160.00, Rabbit - Category: 5	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

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12. Ecological information

12.1. Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
1,1-difluoroethane (HFC-152A) - (75-37-6)	Not Available	Not Available	Not Available
Dimethyl ether - (115-10-6)	4,000.00, Poecilia reticulata	4,000.00, Daphnia magna	Not Available
1,1,1,2-Tetrafluoroethane (HFC-134a) - (811-97-2)	Not Available	Not Available	Not Available
Aliphatic Hydrocarbon - (64742-49-0)	Not Available	2.60, Chaetogammarus marinus	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Do not puncture or incinerate cans. Empty fully and relieve pressure. Empty containers can be recycled. Observe all Federal, State, and Local Environmental regulations.

14. Transport information

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	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	UN1950	UN1950	UN1950
14.2. UN proper shipping name	Aerosols	Aerosols	Aerosols non-flammable Packing Instruction: Y203 (Passenger Aircraft)
14.3. Transport hazard class(es)	DOT Hazard Class: 2.2 DOT Label: "Limited Quantity" marking	IMDG: 2	Air Class: 2
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG	Marine Pollutant: No		
14.6. Special precautions for user			
	No further information		

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification A

US EPA Tier II Hazards **Fire:**Yes

Sudden Release of Pressure:Yes

Reactive:No

Immediate (Acute):No

Delayed (Chronic):No

EPCRA 311/312 Chemicals and RQs:
(No Product Ingredients Listed)

EPCRA 302 Extremely Hazardous :
(No Product Ingredients Listed)

EPCRA 313 Toxic Chemicals:
(No Product Ingredients Listed)

Proposition 65 - Carcinogens (>0.0%):
(No Product Ingredients Listed)

Proposition 65 - Developmental Toxins (>0.0%):
(No Product Ingredients Listed)

Proposition 65 - Female Repro Toxins (>0.0%):
(No Product Ingredients Listed)

Proposition 65 - Male Repro Toxins (>0.0%):
(No Product Ingredients Listed)

N.J. RTK Substances (>1%):

1,1-difluoroethane (HFC-152A)

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SDS Revision Date:

12/05/2014

Dimethyl ether

Penn RTK Substances (>1%):

Dimethyl ether

16. Other information

The full text of the phrases appearing in section 3 is:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness and dizziness.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

Disclaimer: The information contained herein is considered accurate; however, F.E. Knight, Inc. makes no warranty regarding the accuracy of the information. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.

End of Document

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