

**PRO CHEM, INC.**

1475 BLUEGRASS LAKES PKWY.  
ALPHARETTA, GA 30004  
EMERGENCY/INFO # (800) 241-8180  
ADDITIONAL EMERGENCY # INFO TRAC 1-800-535-5053

**MATERIAL SAFETY DATA SHEET****CHILL OUT / 1708****JUNE 2010****PAGE 1**

HEALTH	2
FIRE	3
REACTIVITY	0
P.P.E.	B

Complies With USDL Safety and Health Regulations, (29 CFR 1910.200)

**SECTION 1 – Chemical and Company Identification****PRODUCT USE:** Lubricant/Penetrant**SECTION 2 – Composition on Ingredients**

INGREDIENT	CAS #	WT %
1,1-difluoroethane	75-37-6	60-100
Methyl isobutyl ketone	108-10-1	1-5
Oleic acid	112-80-1	1-5

**SECTION 3 – Hazards Information**

**EMERGENCY OVERVIEW:** FLAMMABLE. HARMFUL BY INHALATION. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTENTS UNDER PRESSURE. CONTAINER MAY EXPLODE IF HEATED.

**POTENTIAL HEALTH EFFECTS:** See Section 11 for more information.

**LIKELY ROUTES OF EXPOSURE:** Skin contact, eye contact, inhalation, and ingestion.

**INHALATION:** Harmful by inhalation. May cause respiratory tract irritation. This product may be aspirated into the lungs and cause chemical pneumonitis.

**EYE CONTACT:** May cause eye irritation. Causes frostbite burns to the eyes.

**SKIN CONTACT:** May cause skin irritation. Causes frostbite burns to the skin.

**INGESTION:** Not a normal route of exposure. Harmful: may cause lung damage if swallowed.

**CHRONIC EFFECTS:** Prolonged or repeated contact may dry skin and cause irritation.

**SIGNS AND SYMPTOMS:** Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Handling can cause dry skin. Vapors may cause drowsiness and dizziness.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Asthma. Allergies.

**TARGET ORGANS:** Skin, eyes, gastrointestinal tract, respiratory system.

**POTENTIAL ENVIRONMENTAL EFFECTS:** May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

**SECTION 4 – First Aid Measures**

**EYE CONTACT:** In case of contact, immediately flush eyes with plenty of water. If easy to do, remove contact lenses, if worn.

**SKIN CONTACT:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

**INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**INGESTION:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**GENERAL ADVICE:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

**NOTE TO PHYSICIANS:** Symptoms may not appear immediately.

**SECTION 5 – Fire Fighting Measures**

**FLAMMABILITY:** Flammable by WHMIS/OSHA criteria.

**MEANS OF EXTINCTION:** Suitable Extinguishing Media: Powder, foam, carbon dioxide.

Unsuitable Extinguishing Media: Water.

**PRODUCTS OF COMBUSTION:** May include, and are not limited to: oxides of carbon, hydrofluoric acid, and carbonyl fluoride.

**EXPLOSION DATA:** Sensitivity to Mechanical Impact: Not available.  
Sensitivity to Static Discharge: Not available.

**PROTECTION OF FIREFIGHTERS:** Containers may explode when heated. Spills of this material are a slipping hazard. Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

**SECTION 6 – Accidental Release Measures**

**PERSONAL PRECAUTIONS:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Ruptured cylinders may rocket.

**ENVIRONMENTAL PRECAUTIONS:** Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). This material is a water pollutant. Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

**METHODS FOR CONTAINMENT:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**METHODS FOR CLEAN-UP:** Vacuum or sweep material and place in a disposal container. Allow gas to dissipate harmlessly into the atmosphere.

**OTHER INFORMATION:** Not available.

**SECTION 7 – Handling and Storage**

**HANDLING:** Keep away from sources of ignition. - No smoking. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. When using, do not eat or drink. Wash hands before eating, drinking, or smoking.

**STORAGE:** Keep out of the reach of children. Keep container in a well-ventilated place. Do not store at temperatures above 49°C / 120°F.

**SECTION 8 – Exposure Controls/Personal Protection****EXPOSURE GUIDELINES**

**INGREDIENT**  
1,1-difluoroethane  
Methyl isobutyl ketone  
Oleic acid

**EXPOSURE LIMITS**

**OSHA-PEL**  
Not available  
100 ppm  
Not available

**ACGIH-TLV**  
Not available  
50 ppm  
Not available

**ENGINEERING CONTROLS:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT:**

**EYE/FACE PROTECTION:** Wear eye/face protection.

**HAND PROTECTION:** Wear suitable gloves.

**SKIN AND BODY PROTECTION:** Wear suitable protective clothing.

**RESPIRATORY PROTECTION:** In case of insufficient ventilation, wear suitable respiratory equipment.

**GENERAL HYGIENE CONSIDERATIONS:** Handle according to established industrial hygiene and safety practices.

**SECTION 9 – Physical and Chemical Properties**

**Appearance:** Clear.

**Color:** Colorless to light yellow.

**Physical State:** Gas/Pressurized Liquid.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Evaporation Rate:** Not available.

**Upper Flammability Limit:** Not available.

**Vapor Density:** >1 (Air=1)

**Solubility in Water:** Negligible

**Auto-ignition Temperature:** Not available.

**VOC content, wt. %:** 4.8% (US federal/CARB/OTC/LADCO)

**Odor:** Characteristic.

**Odor Threshold:** Not available.

**pH:** Not applicable.

**Freezing Point:** Not available.

**Flash Point:** Not available.

**Vapor Pressure:** Not available.

**Lower Flammability Limit:** Not available.

**Specific Gravity:** 0.91 (Concentrate only)

**Coefficient of Water/Oil Distribution:** Not available.

**Percent Volatile, wt. %:** Not available.

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**SECTION 10 – Stability and Reactivity**

**STABILITY:** Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Keep in a cool place.

**CONDITIONS OF REACTIVITY:** Heat. Incompatible materials.

**INCOMPATIBLE MATERIALS:** Oxidizers. Bases. Contact with alkaline earth metals.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May include, and are not limited to: oxides of carbon, hydrofluoric acid, and carbonyl fluoride.

**POSSIBILITY OF HAZARDOUS REACTIONS:** No dangerous reaction known under conditions of normal use.

**SECTION 11 – Toxicological Information****EFFECTS OF ACUTE EXPOSURE****Component Analysis**

Ingredient	LD <sub>50</sub> (oral)	LC <sub>50</sub>
1,1-difluoroethane	Not available.	Not available.
Methyl isobutyl ketone	2080 mg/kg, rat	100 g/m <sup>3</sup> , rat
Oleic acid	25000 mg/kg, rat	Not available.

**Eye:** May cause eye irritation. Causes frostbite burns to the eyes. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Skin:** May cause skin irritation. Causes frostbite burns to the skin. Handling can cause dry skin.

**Ingestion:** Not a normal route of exposure. Harmful: may cause lung damage if swallowed.

**Inhalation:** Harmful by inhalation. May cause respiratory tract irritation. May cause asphyxiation. This product may be aspirated into the lungs and cause chemical pneumonitis. Vapors may cause drowsiness and dizziness.

**EFFECTS OF CHRONIC EXPOSURE**

**Target Organs:** Not available.

**Chronic Effects:** Not hazardous by WHMIS/OSHA criteria.

**Carcinogenicity:** Not hazardous by WHMIS/OSHA criteria.

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen *
1,1-difluoroethane	Not listed.
Methyl isobutyl ketone	Not listed.
Oleic acid	Not listed.

\* See Section 15 for more information.

**MUTAGENICITY:** Not hazardous by WHMIS/OSHA criteria.

**REPRODUCTIVE EFFECTS:** Not hazardous by WHMIS/OSHA criteria.

**DEVELOPMENTAL EFFECTS:**

**Teratogenicity:** Not hazardous by WHMIS/OSHA criteria.

**Embryotoxicity:** Not hazardous by WHMIS/OSHA criteria.

**RESPIRATORY SENSITIZATION:** Not hazardous by WHMIS/OSHA criteria.

**SKIN SENSITIZATION:** Not hazardous by WHMIS/OSHA criteria.

**TOXICOLOGICALLY SYNERGISTIC MATERIALS:** Not available.

**SECTION 12 – Ecological Information**

**ECOTOXICITY:** May cause long-term adverse effects in the aquatic environment

**PERSISTENCE/DEGRADABILITY:** Not available.

**BIOACCUMULATION/ACCUMULATION:** Not available.

**MOBILITY IN ENVIRONMENT:** Not available.

**SECTION 13 – Disposal Consideration****DISPOSAL INSTRUCTIONS:**

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

**SECTION 14 – Transport Information**

**DOT CLASSIFICATION:** ORM-D

**TDG CLASSIFICATION:** Limited quantity

**SECTION 15 – Regulatory Information****Federal Regulations**

**Canadian:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**US:** MSDS prepared pursuant to the Hazard Communication Standard (29 CFR 1910.1200).

**SARA Title III**

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
1,1-difluoroethane	Not listed.	Not listed.	Not listed.	Not listed.
Methyl isobutyl ketone	Not listed.	Not listed.	5000.	313
Oleic acid	Not listed.	Not listed.	Not listed.	Not listed.

**State Regulations**

**California Proposition 65:** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**Global Inventories**

Ingredient	Canada DSL/NDSL	USA TSCA
1,1-difluoroethane	DSL	Yes
Methyl isobutyl ketone	DSL	Yes
Oleic acid	DSL	Yes

**HMIS - Hazardous Materials Identification System**

Health - 2 Flammability - 3 Physical Hazard - 0 PPE-B

**NFPA - National Fire Protection Association:**

Health - 2 Fire - 3 Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

**WHMIS Classification(s):**

Class A - Compressed Gas

Class B5 - Flammable Aerosol

**WHMIS Hazard Symbols:****SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:**

**OSHA (O)** Occupational Safety and Health Administration.

**ACGIH (G)** American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

**IARC (I)** International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in

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the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

**NTP (N)** National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

## SECTION 16 – Other Information

*Disclaimer:*

*We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.*

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