





SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	1080301	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	ICE ERASER PLUS	EMERGENCY TELEPHONE:	1-800-535-5053
PRODUCT DESCRIPTION:	Frost & Ice Remover	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Flammable Aerosol: Category 1 Dissolved Gas Acute Toxicity (Oral / Inhalation / Dermal): Category 3 Specific Target Organ Toxicity (Single Exposure): Category 1	SIGNAL WORD: DANGER	SYMBOL:				
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HAZARD STATEMENTS:

Extremely Flammable Aerosol. Contains gas under pressure: May explode if heated. Toxic if swallowed, in contact with skin, and if inhaled. Causes damage to organs. This product contains the following percentage of chemicals of unknown toxicity: 0%

PRECAUTIONARY STATEMENTS:

Prevention: Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wear protective gloves. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Do not breathe fumes, mist, vapors, or spray. Use only outdoors or in a well-ventilated area.

Response: IF SWALLOWED: Immediately call a poison center or doctor. Rinse mouth. IF ON SKIN: Wash with plenty of water. Call a poison center or doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF EXPOSED: Call a poison control center or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse.

Storage: Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50°C/122°F.

Disposal: Dispose of contents and container in accordance with local, state, and national regulations.

HAZARDS NOT OTHERWISE SPECIFIED:

Not applicable.

3. Composition / Information on Ingredients

Chemical Name	CAS	Concentration % by Weight
Carbon Dioxide	124-38-9	3-7%
Ethylene Glycol	107-21-1	5-10%
Isopropyl Alcohol	67-63-0	1-5%
Methanol	67-56-1	60-100%

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Immediately flush with water for 15 minutes while holding eyelids open. Seek immediate medical attention.

SKIN: Immediately wash with water for 15 minutes.

INHALATION:

Move to fresh air. If breathing is difficult, administer oxygen. If not breathing, administer artificial respiration or at any sign of loss of consciousness, seek immediate medical attention.

INGESTION:

Seek immediate medical attention.

ACUTE HEALTH HAZARDS:

Inhalation of vapors may be narcotic and can be fatal. Ingestion of liquid will cause gastrointestinal distress, irritation, possibly nausea, and can be fatal. Liquid or vapors may be irritating to skin and eyes.

CHRONIC HEALTH HAZARDS:

May cause damage to the following: blood, kidneys, liver, mucous membranes, bone marrow, central nervous system (CNS).

NOTE TO PHYSICIAN:

There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA:

Carbon dioxide, standard chemical fire extinguisher, and water fog.

UNSUITABLE EXTINGUISHING MEDIA:

Water spray/stream.

SPECIAL FIRE FIGHTING PROCEDURES:

Wear NIOSH approved Self-Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Avoid contact with skin and breathing smoke, fumes and decomposition products. Cool fire exposed containers with water fog to prevent bursting.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Contents under pressure. Exposure to temperatures above 120°F may cause bursting. Flammable.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon

6. Accidental Release Measures

PERSONAL PROTECTIVE EQUIPMENT: Refer to section VIII for proper Personal Protective Equipment.

SPILL: Absorb with non-combustible material like vermiculite, sand or earth and rinse with small amount of soapy water. Do not allow to drain into sewers or storm drains. Dispose of in accordance with local, state and federal regulations.

WASTE DISPOSAL:

Dispose of in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection, do not puncture, incinerate, or reuse container.

RCRA STATUS:

Product should be fully characterized prior to disposal (40 CFR 261).

7. Handling and Storage

HANDLING AND STORAGE:

Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50°C/122°F. Pressurized container: Do not pierce or burn, even after use.

OTHER PRECAUTIONS:

Keep out of the reach of children.

INCOMPATIBILITY:

Strong oxidizing agents.

8. Exposure Controls / Personal Protection

BIOLOGICAL LIMIT VALUES:

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Carbon Dioxide	5000 ppm	5000 ppm
Ethylene Glycol	125 mg/m3	100 mg/m3
Isopropyl Alcohol	400 ppm	200 ppm
Methanol	200 ppm	200 ppm

ENGINEERING CONTROLS / VENTILATION:

General ventilation and local exhaust should be adequate.

RESPIRATORY PROTECTION:

Wear NIOSH/MSHA approved respiratory protection if used in confined, poorly ventilated areas.

PERSONAL PROTECTIVE EQUIPMENT:

Safety glasses and chemical resistant gloves.

ADDITIONAL MEASURES:

Wash hands thoroughly after handling. Do not breathe vapors. Do not eat, drink, or smoke while using product. Get medical attention if you feel unwell.

9. Physical & Chemical Properties

Appearance:	Clear, Colorless Aerosol	Flammability(solid/gas):	Extremely Flammable Aerosol
Odor:	Alcohol Odor	Flammability Limit-lower (%):	Not determined
Odor Threshold:	Not determined	Flammability Limit-upper (%):	Not determined
pH:	N/A	Vapor Density (AIR=1):	> 1
Freezing Point:	Not determined	Vapor Pressure (mm Hg):	89 mmHg
Boiling Point:	> 148°F (64.4°C)	Volatile Organic Compounds (VOC):	88.8%
Viscosity:	Not determined	Solubility (water):	100%
Flash Point:	65°F (18°C)	Auto-Ignition Temp:	Not determined
Specific Gravity (H2O=1):	0.815 @ 77°F (25°C)	Decomposition Temp:	Not determined
Evaporation Rate:	> 1	Partition Coeff(n-octanol/water) (KOW):	Not determined

10. Stability & Reactivity Information

REACTIVITY:

None known.

CHEMICAL STABILITY:

Stable.

CONDITIONS TO AVOID:

Temperatures greater than 122°F may cause bursting.

INCOMPATIBILITY:

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BY-PRODUCT:

Oxides of carbon.

POSSIBLE HAZARDOUS REACTIONS:

None known.

11. Toxicological Information

TOXICOLOGICAL INFORMATION:

Isopropyl Alcohol (67-63-0) Oral LD50 (Rat): 5045mg/kg; Dermal LD50 (Rabbit):12870mg/kg; Inhalation LC50 (Rat, 4h): 78.6 mg/L

Methanol (67-56-1) Oral LD50 (Rat): 1187-2769 mg/kg; Inhalation LC50 (Rat, 4h): 128.2 mg/l

Ethylene Glycol (107-21-1) LD50 (Oral, Rat): 4700 mg/kg; LC50 (Rat, 4 hrs): 10876 mg/kg

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin

Eyes: Causes severe irritation, redness, tearing.

Ingestion: Not a likely route of exposure under normal product handling conditions.

Inhalation: Acute exposure may cause nausea, vomiting, coughing and pulmonary irritation.

Skin: Causes localized defatting, irritation.

MEDICAL CONDITION AGGRAVATED:

Pre-existing disorders of the skin, respiratory system, and eyes will be aggravated by over exposure.

ACUTE HEALTH HAZARDS:

Inhalation of vapors may be narcotic and can be fatal. Ingestion of liquid will cause gastrointestinal distress, irritation, possibly nausea, and can be fatal. Liquid or vapors may be irritating to skin and eyes.

CHRONIC HEALTH HAZARDS:

May cause damage to the following: blood, kidneys, liver, mucous membranes, bone marrow, central nervous system (CNS).

CARCINOGENICITY: OSHA: No ACGIH: No NTP: No IARC: No OTHER: N/A

12. Ecological Information

ECOLOGICAL INFORMATION:

Isopropyl Alcohol (67-63-0) LC50 (Fathead Minnow, 96 hrs) 9640 mg/L

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.

13. Disposal Consideration

WASTE DISPOSAL:

Dispose of in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection, do not puncture, incinerate, or reuse container.

RCRA STATUS:

Product should be fully characterized prior to disposal (40 CFR 261).

14. Transportation Information

DOT: UN Number: UN1950
UN Proper Shipping Name: Aerosols, Ltd. Qty.
Transport Hazard Class(es):
Class: 2.1
Packing Group: Not applicable.

IATA: UN Number: UN1950
UN Proper Shipping Name: Aerosols, Ltd. Qty.
Transport Hazard Class(es):
Class: 2.1
Packing Group: Not applicable.

IMDG: UN Number: UN1950
UN Proper Shipping Name: Aerosols, Ltd. Qty.
Transport Hazard Class(es):
Class: 2.1
Packing Group: Not applicable.
Environmental Hazards Water: Not applicable.

15. Regulatory Information

TSCA STATUS:

All chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

Methanol (67-56-1) Reportable Quantity = 5,000 lbs **Ethylene Glycol** (107-21-1) Reportable Quantity = 5,000 lbs

SARA 311/312 HAZARD CATEGORIES: Fire Hazard

SARA 313 REPORTABLE INGREDIENTS:

Methanol (67-56-1), **Ethylene Glycol** (107-21-1)

CLEAN WATER ACT: None

STATE REGULATIONS: This product contains chemicals known to the state of California to cause birth defects or other reproductive harm:

Methanol (67-56-1) **Isopropyl Alcohol** (67-63-0) RTK: FL, NJ, PA, MN, MA, RI

INTERNATIONAL REGULATIONS:

All components are listed or exempted.

16. Other Information

N/A = Not Applicable; N/D = Not Determined

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.