SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER: 163811

PRODUCT NAME: BLAST FORCE

PRODUCT DESCRIPTION: Aerosol Contact and Circuit Board Cleaner

COMPANY INFORMATION: **PRO CHEM, INC.**
1475 Bluegrass Lakes Parkway
Alpharetta, GA 30004

COMPANY PHONE: 1-800-241-8180

EMERGENCY TELEPHONE: 1-800-535-5053

INFOTRAC: 1-800-535-5053

2. Hazards Identification

GHS CLASSIFICATION:
Aerosol Category 1
Skin Irritant: Category 2
Specific Target Organ Toxicity (Single Exposure): Category 3
Aspiration Hazard: Category 1

SIGNAL WORD:
DANGER

SYMBOL:

HAZARD STATEMENTS:
DANGER: Extremely flammable aerosol. Pressurized container: may burst if heated. Causes skin irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. This product contains the following percentage of chemicals of unknown toxicity: 0%

PRECAUTIONARY STATEMENTS:
Prevention: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No Smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn even after use. Obtain, read and follow all safety instructions before use. Avoid breathing fumes, mist, and spray. Wash hands thoroughly after handling. Wear protective gloves, protective clothing, and eye protection.
Response: IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical help. Take off contaminated clothing and wash it before reuse. Use only outdoors or in a well-ventilated area. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell. IF SWALLOWED: Get emergency medical help immediately. Do NOT induce vomiting. Store in a well-ventilated place.
Storage: Protect from sunlight. Do not expose to temperature exceeding 50°C/ 122°F.
Disposal: Dispose of contents and container in accordance with local, state, and national regulations.

HAZARDS NOT OTHERWISE SPECIFIED:
No applicable.

3. Composition / Information on Ingredients

Chemical Name	CAS	Concentration % by Weight
Heptane	142-82-5	80-100%
Isopropyl Alcohol	67-63-0	3-7%
Carbon Dioxide	124-38-9	1-5%

Trade Secret Information: A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

INGESTION:
IF SWALLOWED: Aspiration Hazard. Rinse mouth. Do NOT induce vomiting. Get medical advice or attention.

INHALATION:
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.

SKIN: IF ON SKIN: Wash with plenty of water. If skin irritation occurs: get medical attention.

ACUTE HEALTH HAZARDS:
Defatting of skin, dermatitis, blurred vision and abdominal irritation.

CHRONIC HEALTH HAZARDS:
None known.

NOTE TO PHYSICIAN:
If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA:
Dry chemical, carbon dioxide, and foam.

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.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

HAZARDOUS COMBUSTION PRODUCTS:
Oxides of carbon and hydrocarbons.

6. Accidental Release Measures

PERSONAL PROTECTIVE EQUIPMENT:
Refer to Section 8 for proper Personal Protective Equipment.

SPILL: Clean up with non-combustible material like vermiculite, sand or earth. If many containers are opened, remove ignition sources. Prevent spill from entering sewers, storm drains, and natural waterways.

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

RCRA STATUS:
Waste likely considered D001 (Ignitable waste), under RCRA, however 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 area. Do not expose to temperatures exceeding 50°C/122°F. Pressurized container: Do not pierce or burn, even after use.

OTHER PRECAUTIONS:
Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warning and precautions listed for the product.

INCOMPATIBILITY:
Strong alkalis, strong oxidizing agents, some plastics, rubber.

8. Exposure Controls / Personal Protection

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Isopropyl Alcohol	500 ppm	400 ppm
Carbon Dioxide	5000 ppm	5000 ppm
Heptane	500 ppm	400 ppm

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses and chemical resistant gloves.

ENGINEERING CONTROLS / VENTILATION: Use only in well-ventilated areas.
RESPIRATORY PROTECTION: Not required with adequate ventilation.
ADDITIONAL MEASURES: Wash hands thoroughly after handling.

9. Physical & Chemical Properties

Appearance:	Clear Liquid.	**Flammability Limit-upper (%):**	Not determined.
Odor:	Alcohol or Solvent odor	**Explosive Limit Lower (%):**	Not determined.
Odor Threshold:	Not determined.	**Explosive Limit Upper (%):**	Not determined.
pH:	Not applicable.	**Vapor Pressure (mm Hg):**	Not determined.
Melting/Freezing Point:	Not determined.	**Vapor Density (AIR=1):**	>2
Initial Boiling Point/Range:	Unknown.	**Relative Density (H2O=1):**	0.69-0.725 @ 77°F (25°C)
Flash Point:	Not determined.	**Solubility(ies):**	Non-soluble in water.
Evaporation Rate:	>1	**Partition Coefficient: (n-octanol/water (K_{OW}):**	Not determined.
Flammability(solid/gas):	Extremely Flammable Aerosol.	**Auto-Ignition Temperature:**	Not determined.
Upper/Lower Flammability or Explosive Limits:		**Decomposition Temperature:**	Not determined.
Flammability Limit-lower (%):	Not determined.	**Viscosity:**	Not applicable.

10. Stability & Reactivity Information

REACTIVITY:
None Known.

CHEMICAL STABILITY:
Stable under normal conditions.

POSSIBLE HAZARDOUS REACTIONS:
None known.

CONDITIONS TO AVOID:
Sources of ignition.

INCOMPATIBLE MATERIALS:
Strong alkalis, strong oxidizing agents, some plastics, rubber.

HAZARDOUS DECOMPOSITION PRODUCTS:
Stable under normal storage conditions.

11. Toxicological Information

TOXICOLOGICAL INFORMATION:
Heptane (142-82-5) LD_{50} (Oral, Rat) 15,000 mg/kg; LC_{50} (Inhalation, Rat, 4hr) 103 g/m3; LD_{50} (Dermal, Rabbit) 2,000 mg/kg.
Isopropyl Alcohol (67-63-0) LD_{50} (Oral, Rat) 5045 mg/kg; LD_{50} (Oral, Rabbit) 5045 mg/kg; LD_{50} (Dermal, Rabbit) 12800 mg/kg; LC_{50} (Inhalation, Rat, 8hr) 16000 ppm.

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin
EYES: May causes irritation, blurred vision.
INGESTION: Causes gastrointestinal irritation. Aspiration Hazard.
INHALATION: Causes dizziness, headache, and nausea. May cause damage to the central nervous system, liver and kidneys through prolonged or repeated exposure.
SKIN: Causes localized defatting, irritation.

MEDICAL CONDITION AGGRAVATED:
Pre-existing conditions of the skin, liver, central nervous system (CNS) and kidneys.
ACUTE HEALTH HAZARDS:
Defatting of skin, dermatitis, blurred vision and abdominal irritation.
CHRONIC HEALTH HAZARDS:
None known.
CARCINOGENICITY: **OSHA:** No **ACGIH:** No **NTP:** No **IARC:** No **OTHER:** Prop 65

12. Ecological Information

ECOTOXICITY:
Isopropyl alcohol (67-63-0): LC_{50} (*Pimephales promelas*, 96h) 9640 mg/L; EC_{50} (*Daphnia magna*, 48h) 13299 mg/L; EC_{50} (*Desmodesmus subspicatus*, 72h) > 1000 mg/L.
PERSISTENCE AND DEGRADABILITY:
Component or components of this product are not biodegradable.
BIOACCUMULATIVE POTENTIAL:
Components in this mixture can bioaccumulate in aquatic organisms.
MOBILITY IN SOIL:
This product is mobile in soil.
OTHER ADVERSE EFFECTS: N/A

13. Disposal Consideration

WASTE DISPOSAL:
Dispose of in accordance with local, state and federal regulations. Do not dump in sewers. Wrap container and place in trash collection. Do not puncture, incinerate, or reuse container.
RCRA STATUS:
Waste likely considered D001 (Ignitable waste), under RCRA, however 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: **AIR SHIPMENT**
UN Number: UN1950
UN Proper Shipping Name: Aerosols, flammable.
Transport Hazard Class(es):
Class: 2.1
Packing Group: Not applicable
SHIPPING BY WATER: VESSEL (IMO/IMDG):
UN Number: UN1950
UN Proper Shipping Name: Aerosols
Transport Hazard Class(es):
Class: 2.1
Packing Group: Not applicable
ENVIRONMENTAL HAZARDS WATER: None.

15. Regulatory Information

TSCA STATUS: All chemicals are listed or exempt.
CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Toluene (108-88-3) Reportable Quantity = 1000 pounds.
SARA 311/312 HAZARD CATEGORIES: None.
SARA 313 REPORTABLE INGREDIENTS: Toluene (108-88-3).
STATE REGULATIONS:
California Proposition 65: WARNING: This product can expose you to chemicals including Toluene which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. **Heptane** (142-82-5): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: CA, IL, MA, NJ, PA, RI. **Isopropyl alcohol** (67-63-0): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: CT, FL, IL, MA, MN, NJ, PA, RI, TN.
INTERNATIONAL REGULATIONS: Canadian Domestic Substance List (DSL): All ingredients are listed.
VOLATILE ORGANIC COMPOUNDS (VOC): 97%

16. Other Information

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