



SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	1638	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	BLASTER	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Aerosol Degreaser & Flushing Agent For Electrical Components & Equipment	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Gases under pressure: Compressed gas Acute toxicity, inhalation: Category 4 Environmental Hazards: Not classified. OSHA Defined hazards: Not classified.	SIGNAL WORD: WARNING	SYMBOL:		
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HAZARD STATEMENTS:

Contains gas under pressure; may explode if heated. Harmful if inhaled.

PRECAUTIONARY STATEMENTS:

Prevention: Avoid breathing gas. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

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

Storage: Protect from sunlight. Store in a well-ventilated place.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARDS NOT OTHERWISE SPECIFIED:

None known.

SUPPLEMENTAL INFORMATION:

None.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	Concentration % by Weight
Trans-1,2-dichloroethylene	156-60-5	40-60
1,1,1,2-Tetrafluoroethane	811-97-2	20-40
Methyl Nonafluorobutyl Ether	163702-07-6	2.5-10
Methyl Nonafluoroisobutyl Ether	163702-08-7	2.5-10
Other components below reportable levels		0.1-1

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Rinse with water. Get medical attention if irritation develops and persists.

SKIN: Wash off with soap and water. Get medical attention if irritation develops and persists.

INHALATION:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

INGESTION:

Rinse mouth. Get medical attention if symptoms occur.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Direct contact with eyes may cause temporary irritation.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

GENERAL INFORMATION:

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Water fog. Dry chemical powder. Carbon dioxide (CO₂).

UNSUITABLE FIRE EXTINGUISHING MEDIA:

None known.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Contents under pressure.

SPECIFIC FIRE-FIGHTING METHODS:

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Cool containers exposed to flames with water until well after the fire is out.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements, or confined areas. For waste disposal, see Section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, watercourses or onto the ground.

7. Handling and Storage

SAFE HANDLING:

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Do not re-use empty containers. Avoid breathing gas. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

SAFE STORAGE:

Level 1 Aerosol.
Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate, or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls / Personal Protection

OCCUPATIONAL EXPOSURE LIMITS

US. ACGIH Threshold Limit Values

COMPONENT	TYPE	VALUE
Trans-1,2-dichloroethylene (CAS 156-60-5)	TWA	200 ppm

US. Workplace Environmental Exposure Level (WEEL) Guides

COMPONENT	TYPE	VALUE
1,1,1,2-Tetrafluoroethane (CAS 811-97-2)	TWA	4240 mg/m ³ 1000 ppm
Methyl Nonafluorobutyl Ether (CAS 163702-07-6)	TWA	750 ppm
Methyl Nonafluoroisobutyl Ether (CAS 163702-08-7)	TWA	750 ppm

BIOLOGICAL LIMIT VALUES:

No biological exposure limits noted for the ingredient(s).

APPROPRIATE ENGINEERING CONTROLS:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

PERSONAL PROTECTIVE EQUIPMENT:



EYE PROTECTION: If contact is likely, safety glasses with side shields are recommended.

SKIN PROTECTION: Wear appropriate chemical resistant gloves. Wear suitable protective clothing.

RESPIRATORY PROTECTION: If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

THERMAL HAZARDS: Wear appropriate thermal protective clothing, when necessary.

HYGIENE CONSIDERATIONS: When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

APPEARANCE:		FLAMMABILITY(gas/solid):	Not available.
Physical State:	Gas	Flammability Limit-lower (%):	6.7% estimated
Form:	Aerosol. Compressed gas.	Flammability Limit-upper (%):	13.7% estimated
Color:	Not available.	Explosive Limit - lower (%):	Not available.
ODOR:	Not available.	Explosive Limit - upper (%):	Not available.
ODOR THRESHOLD:	Not available.	VAPOR PRESSURE:	2266.58 psig @70°F estimated
pH:	Not available.	VAPOR DENSITY:	Not available.
MELTING/FREEZING POINT:	Not available.	RELATIVE DENSITY:	Not available.
BOILING POINT/RANGE:	Not available.	SOLUBILITY (water):	Not available.
PARTITION COEFFICIENT (n-)	Not available.	AUTO-IGNITION TEMP:	744.8 °F (396 °C) estimated

octanol/water):			
VISCOSITY:	Not available.	DECOMPOSITION TEMP:	Not available.
SPECIFIC GRAVITY:	0.364 estimated	FLASH POINT:	Not available.
		EVAPORATION RATE:	Not available.

10. Stability & Reactivity Information

REACTIVITY:

The product is stable and non-reactive under normal conditions of use, storage and transport.

CHEMICAL STABILITY:

Material is stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

Hazardous polymerization does not occur.

INCOMPATIBLE MATERIALS:

Strong oxidizing agents.

CONDITIONS TO AVOID:

Contact with incompatible materials.

DECOMPOSITION PRODUCTS:

No hazardous decomposition products are known.

11. Toxicological Information

PRIMARY ROUTE OF ENTRY:

INGESTION: Expected to be a low ingestion hazard.

INHALATION: Harmful if inhaled.

SKIN CONTACT: No adverse effects due to skin contact are expected.

EYE CONTACT: Direct contact with eyes may cause temporary irritation.

ACUTE TOXICITY:

Harmful if inhaled.

SKIN CORROSION/IRRITATION:

Not applicable.

SERIOUS EYE DAMAGE/IRRITATION:

Direct contact with eyes may cause temporary irritation.

RESPIRATORY OR SKIN SENSITIZATION:

Respiratory Sensitization: Not available.

Skin Sensitization: This product is not expected to cause skin sensitization.

GERM CELL MUTAGENICITY:

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

CARCINOGENICITY:

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

REPRODUCTIVE TOXICITY:

This product is not expected to cause reproductive or developmental effects.

SPECIFIC TARGET ORGAN TOXICITY (single exposure):

Not classified.

SPECIFIC TARGET ORGAN TOXICITY (repeated exposure):

Not classified.

ASPIRATION HAZARD:

Not likely, due to the form of the product.

CHRONIC EFFECTS:

Prolonged inhalation may be harmful.

12. Ecological Information

ECOTOXICITY:

Harmful to aquatic life with long lasting effects.

PERSISTENCE AND DEGRADABILITY:

No data is available on the degradability of this product.

BIOACCUMULATIVE POTENTIAL: No data available.

Partition coefficient n-octanol/water (log Kow)

1,1,1,2-Tetrafluoroethane 1.274

Trans-1,2-dichloroethylene 2.06

MOBILITY IN SOIL:

No data available.

OTHER ADVERSE EFFECTS:

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Consideration

DISPOSAL INSTRUCTIONS:

Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate, or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

LOCAL DISPOSAL REGULATIONS:

Dispose in accordance with all applicable regulations.

HAZARDOUS WASTE CODE:

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

US RCRA Hazardous Waste U List: Reference
Trans-1,2-dichloroethylene (CAS 156-60-5) U079

WASTE FROM RESIDUES/UNUSED PRODUCTS:

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

CONTAMINATED PACKAGING:

Empty containers should be taken to an approved waste-handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

14. Transportation Information

DOT: UN NUMBER: UN1950
UN PROPER SHIPPING NAME: Aerosols, non-flammable, (each not exceeding 1 L capacity)
TRANSPORT HAZARD CLASS(ES)
Class: 2.2
Subsidiary Risk: --
Label(s): 2.2
PACKING GROUP: Not applicable.
SPECIAL PRECAUTIONS FOR USER: Read safety instructions, SDS and emergency procedures before handling.
PACKAGING EXCEPTIONS: 306
PACKAGING NON BULK: None.
PACKAGING BULK: None.



This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA: UN NUMBER: UN1950
UN PROPER SHIPPING NAME: Aerosols, non-flammable
TRANSPORT HAZARD CLASS(ES)
Class: 2.2
Subsidiary Risk: -
Label(s): 2.2



PACKING GROUP: Not applicable.
ENVIRONMENTAL HAZARDS: No.
ERG CODE: 2L
SPECIAL PRECAUTIONS FOR USER: Read safety instructions, SDS and emergency procedures before handling.
OTHER INFORMATION:

PASSENGER AND CARGO AIRCRAFT: Allowed.
CARGO AIRCRAFT ONLY: Allowed.
PACKAGING EXCEPTIONS: LTD QTY

IMDG: UN NUMBER: UN1950
UN PROPER SHIPPING NAME: AEROSOLS
TRANSPORT HAZARD CLASS(ES)
Class: 2.2
Subsidiary Risk: -
Label(s): None.



PACKING GROUP: Not applicable.
ENVIRONMENTAL HAZARDS:
Marine pollutant: No.
EmS: Not available.
SPECIAL PRECAUTIONS FOR USER: Read safety instructions, SDS and emergency procedures before handling.
PACKAGING EXCEPTIONS: LTD QTY

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 and the IBC CODE:
Not applicable.

15. Regulatory Information

US FEDERAL REGULATIONS:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4):

Trans-1,2-dichloroethylene (CAS 156-60-5) Listed.

SARA 304 Emergency release notification: Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories:
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - Yes
Reactivity Hazard - No

SARA 302 Extremely hazardous substance: Not listed.

SARA 311/312 Hazardous chemical: No.

SARA 313 (TRI reporting): Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.

Safe Drinking Water Act (SDWA): Not regulated.

US STATE REGULATIONS:**US. Massachusetts RTK - Substance List**

Trans-1,2-dichloroethylene (CAS 156-60-5)

US. New Jersey Worker and Community Right-to-Know Act: Not listed.**US. Pennsylvania Worker and Community Right-to-Know Law**

Trans-1,2-dichloroethylene (CAS 156-60-5)

US. Rhode Island RTK

Trans-1,2-dichloroethylene (CAS 156-60-5)

US. California Proposition 65: California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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.