





SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	1622	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	KNOCK IT OFF	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Aerosol Safety Solvent & Nonflammable Brake Parts Cleaner	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 Carcinogenicity: Category 2 OSHA defined hazards: Not classified	SIGNAL WORD: WARNING	SYMBOL:		
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HAZARD STATEMENTS:

Contains gas under pressure; may explode if heated. Suspected of causing cancer.

PRECAUTIONARY STATEMENTS:

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF EXPOSED OR CONCERNED: Get medical advice/attention.

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

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

ENVIRONMENTAL HAZARDS:

Hazardous to the aquatic environment, acute hazard: Category 2.

Hazardous to the aquatic environment, long-term hazard: Category 2.

Hazardous to the ozone layer: Category 1.

HAZARDS NOT OTHERWISE SPECIFIED:

Harms public health and the environment by destroying ozone in the upper atmosphere.

SUPPLEMENTAL INFORMATION:

None.

3. Composition / Information on Ingredients

Chemical Name	CAS	Concentration % by Weight
Perchloroethylene	127-18-4	90-100
Carbon Dioxide	124-38-9	2.5-10
Carbon Tetrachloride	56-23-5	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

GENERAL: IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

EYES: No specific first aid measures noted.

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

INHALATION:

Move to fresh air. Call a physician if symptoms **Inhalation** develop or persist.

INGESTION:

Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or poison control center.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Headache. Dizziness. Nausea.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

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

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

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

UNSUITABLE FIRE EXTINGUISHING MEDIA:

Do not use water jet as an extinguisher, as this will spread the fire.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

During fire, gases hazardous to health may be formed.

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. Use standard firefighting procedures and consider the hazards of other involved materials.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

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

GENERAL FIRE HAZARDS:

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

6. Accidental Release Measures**PERSONAL PRECAUTIONS:**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during cleanup. Emergency personnel need self-contained breathing equipment. 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.

MATERIALS AND METHODS FOR CLEANUP:

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see Section 13 of the SDS.

ENVIRONMENTAL PRECAUTIONS:

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, water courses or onto the ground.

7. Handling and Storage**SAFE HANDLING:**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not reuse empty containers. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

SAFE STORAGE & INCOMPATIBILITIES:

Store locked up. 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. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls / Personal Protection**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

COMPONENTS	TYPE	VALUE
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m ³ 5000 ppm
COMPONENTS	TYPE	VALUE
Carbon Tetrachloride (CAS 56-23-5)	Ceiling	25 ppm
	TWA	10 ppm
Perchloroethylene (CAS 127-18-4)	Ceiling	200 ppm
	TWA	100 ppm
US. ACGIH Threshold Limit Values		
COMPONENTS	TYPE	VALUE
Carbon Dioxide (CAS 124-38-9)	STEL	30,000 ppm
	TWA	5,000 ppm
Carbon Tetrachloride (CAS 56-23-5)	STEL	10 ppm
	TWA	5 ppm
Perchloroethylene (CAS 127-18-4)	STEL	100 ppm
	TWA	25 ppm
US. NIOSH: Pocket Guide to Chemical Hazards		
COMPONENTS	TYPE	VALUE
Carbon Dioxide (CAS 124-38-9)	STEL	54,000 mg/m ³ 30,000 ppm
	TWA	9,000 mg/m ³ 5,000 ppm
Carbon Tetrachloride (CAS 56-23-5)	STEL	12.6 mg/m ³ 2 ppm

BIOLOGICAL LIMIT VALUE:**ACGIH Biological Exposure Indices:**

Components	Value	Determinant	Specimen	Sampling Time
Perchloroethylene (CAS 127-18-4)	0.5 mg/l	Tetrachloroethylene	Blood	*
	3 ppm	Tetrachloroethylene	End-exhaled air	*

* - For sampling details, please see the source document

EXPOSURE GUIDELINES:

US - California OELs: Skin designation:

Carbon Tetrachloride (CAS 56-23-5) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies:

Carbon Tetrachloride (CAS 56-23-5) Skin designation applies.

Perchloroethylene (CAS 127-18-4) Skin designation applies.

US ACGIH Threshold Limit Values: Skin designation:

Carbon Tetrachloride (CAS 56-23-5) Can be absorbed through the skin.

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.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:**Eye Protection:** Chemical respirator with organic vapor cartridge and full facepiece.**Skin Protection: Hand protection:** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.**Other:** Wear suitable protective clothing. Use of an impervious apron is recommended.**Respiratory Protection:** Chemical respirator with organic vapor cartridge and full facepiece.**Thermal Hazards:** Wear appropriate thermal protective clothing, when necessary.**General Hygiene Considerations:** Observe any medical surveillance requirements. 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**

Physical State:	Liquid.	Flammability (solid/gas):	Not applicable.
Form:	Aerosol. Compressed gas.	Flammability Limit–lower (%):	Not available.
Color:	Not available.	Flammability Limit–upper (%):	Not available.
Odor:	Not available.	Explosive Limit – lower (%):	Not available.
Odor Threshold:	Not available.	Explosive Limit – upper (%):	Not available.
pH:	Not available.	Vapor Pressure:	27.46 psig @70F estimated.
Melting/Freezing Point:	Not available.	Vapor Density:	Not available.
Initial Boiling Point/Range:	250.34°F (121.3°C) estimated.	Relative Density:	1.62 estimated.
Partition Coeff (n-octanol/water):	Not available.	Solubility (water):	Not available.
Viscosity:	Not available.	Auto-Ignition Temperature:	1250.6 °F (677 °C) estimated
Heat of Combustion (NFPA 30B):	0 estimated.	Decomposition Temperature:	Not available.
Flash Point:	Not available.	Evaporation Rate:	Not available.
Explosive Properties:	Not explosive.	Oxidizing Properties:	Not oxidizing.

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:

Heat. Contact with incompatible materials.

HAZARDOUS DECOMPOSITION PRODUCTS:

Hydrogen chloride.

11. Toxicological Information**PRIMARY ROUTE OF ENTRY:****Eyes:** Direct contact with eyes may cause temporary irritation.**Skin:** No adverse effects due to skin contact are expected.**Inhalation:** Prolonged inhalation may be harmful.**Ingestion:** Expected to be a low ingestion hazard.**SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:**

Headache. Dizziness. Nausea.

ACUTE TOXICITY:**COMPONENTS****SPECIES****TEST RESULTS**

Perchloroethylene (CAS 127-18-4)

Acute*Inhalation*

LC50

Dog; Mouse; Rabbit; Rat

3,000 ppm

Oral

LD50

Cat; Dog; Mouse; Rabbit; Rat

> 1,500 mg/kg

Rat

3,005 mg/kg

* Estimates for product may be based on additional component data not shown.

SKIN CORROSION/IRRITATION:

Prolonged skin contact may cause temporary irritation.

SERIOUS EYE DAMAGE/IRRITATION:

Direct contact with eyes may cause temporary irritation.

RESPIRATORY SENSITIZATION:

Not a respiratory sensitizer.

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:

Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity:

Carbon Tetrachloride (CAS 56-23-5) 2B Possibly carcinogenic to humans.

Perchloroethylene (CAS 127-18-4) 2A Probably carcinogenic to humans.

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

US. National Toxicology Program (NTP) Report on Carcinogens:

Carbon Tetrachloride (CAS 56-23-5) Reasonably Anticipated to be a Human Carcinogen.

Perchloroethylene (CAS 127-18-4) Reasonably Anticipated to be a Human Carcinogen.

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 exposures):

Not classified.

ASPIRATION HAZARD:

Not an aspiration hazard.

CHRONIC EFFECTS:

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological Information**ECOTOXICITY:**

Toxic to aquatic life with long lasting effects. Harms public health and the environment by destroying ozone in the upper atmosphere.

COMPONENTS	SPECIES	TEST RESULTS
Carbon Tetrachloride (CAS 56-23-5)		
Aquatic		
Fish LC50	Fathead minnow (<i>Pimephales promelas</i>)	9.68 - 11.3 mg/l, 96 hours
Perchloroethylene (CAS 127-18-4)		
Aquatic		
Crustacea EC50	Daphnia	7.55 mg/L, 48 Hours
	Water flea (<i>Daphnia magna</i>)	6.1 – 9 mg/l, 48 hours
Fish LC50	Rainbow trout, donaldson trout (<i>Oncorhynchus mykiss</i>)	4.82 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

PERSISTENCE AND DEGRADABILITY:

No data is available on the degradability of this product.

BIOACCUMULATIVE POTENTIAL:**Partition coefficient n-octanol / water (log Kow):**

Carbon Tetrachloride	2.83
Perchloroethylene	3.4

MOBILITY IN SOIL:

No data available.

OTHER ADVERSE EFFECTS:

Dangerous for the environment: May damage the ozone layer.

13. Disposal Consideration**DISPOSAL INSTRUCTIONS:**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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.

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:

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

14. Transportation Information

DOT: UN Number: UN1950
UN Proper Shipping Name: Aerosols, nonflammable.
Transport Hazard Class(es)
Class: 2.2
Subsidiary Risk: 6.1 (PGIII)
Label(s): 2.2, 6.1



Packing Group: Not applicable.
Special Precautions for User: Not available.
Packaging Exceptions: 306
Packaging Nonbulk: None.
Packaging Bulk: None.

IATA: UN Number: UN1950
UN Proper Shipping Name: Aerosols, nonflammable, containing substances in Division 6.1, Packing Group III
Transport Hazard Class(es)
Class: Forbidden.
Subsidiary Risk: Forbidden.

Packing Group: Not applicable.
Environmental Hazards: No.
Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.

IMDG: UN NUMBER: UN1950
UN Proper Shipping Name: AEROSOLS
Transport Hazard Class(es)
Class: 2.2
Subsidiary Risk: 6.1 (PGIII)
Label(s): 2.2, 6.1



Packing Group: Not applicable.
Environmental Hazards:
Marine pollutant: Yes.
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 established.

GENERAL INFORMATION:

IMDG Regulated Marine Pollutant. Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

15. Regulatory Information

US FEDERAL REGULATIONS:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

CERCLA Hazardous Substance List (40 CFR 302.4):

Carbon Tetrachloride (CAS 56-23-5): Listed.

Perchloroethylene (CAS 127-18-4): Listed.

SARA 304 Emergency release notification: Not regulated.

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

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT of 1986 (SARA):

Hazard categories: Immediate Hazard – No.

Delayed Hazard – Yes.

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):

Chemical Name	CAS #	% by Weight
Perchloroethylene	127-18-4	90-100
Carbon Tetrachloride	56-23-5	0.1-1

OTHER FEDERAL REGULATIONS

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:

Carbon Tetrachloride (CAS 56-23-5)

Perchloroethylene (CAS 127-18-4)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.

Safe Drinking Water Act (SDWA): Not regulated.

US STATE REGULATIONS

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100): Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a)):

Carbon Tetrachloride (CAS 56-23-5)

Perchloroethylene (CAS 127-18-4)

US. Massachusetts RTK - Substance List:

Carbon Dioxide (CAS 124-38-9)
Carbon Tetrachloride (CAS 56-23-5)
Perchloroethylene (CAS 127-18-4)

US. New Jersey Worker and Community Right-to-Know Act:

Carbon Dioxide (CAS 124-38-9)
Carbon Tetrachloride (CAS 56-23-5)
Perchloroethylene (CAS 127-18-4)

US. Pennsylvania Worker and Community Right-to-Know Law:

Carbon Dioxide (CAS 124-38-9)
Carbon Tetrachloride (CAS 56-23-5)
Perchloroethylene (CAS 127-18-4)

US. Rhode Island RTK:

Carbon Tetrachloride (CAS (CAS 56-23-5)
Perchloroethylene (CAS 127-18-4)

US. California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance:

Carbon Tetrachloride (CAS 56-23-5) Listed: October 1, 1987
Perchloroethylene (CAS 127-18-4) Listed: April 1, 1988

INTERNATIONAL INVENTORIES:

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)	Yes
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

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.