






SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	1707	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	4-N-1	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Aerosol Penetrant, Lubricant, Demoisturant & Protectant	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Flammable aerosols: Category 1 Sensitization, skin: Category 1 Reproductive toxicity (fertility): Category 2 Aspiration hazard: Category 1 OSHA defined hazards: Not classified.	SIGNAL WORD: DANGER	SYMBOL:			
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HAZARD STATEMENTS:

Extremely flammable aerosol. May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Suspected of damaging fertility.

PRECAUTIONARY STATEMENTS:

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/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. Avoid breathing gas. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF SWALLOWED: Immediately call a poison center/doctor. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. IF EXPOSED OR CONCERNED: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Storage: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

HAZARDS NOT OTHERWISE SPECIFIED:

Combustible.

SUPPLEMENTAL INFORMATION:

None.

3. Composition / Information on Ingredients

Chemical Name	CAS	Concentration % by Weight
White Mineral Oil	8042-47-5	40-60
Carbon Dioxide	124-38-9	2.5-10
Dipropylene Glycol Monomethyl Ether	34590-94-8	2.5-10
Octamethylcyclotetrasiloxane	556-67-2	2.5-10
Calcium Sulfonate	61789-86-4	0.1-1
Other components below reportable levels		40-60

*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. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

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

SKIN: In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

INHALATION:

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

INGESTION:

Rinse mouth. Get medical attention if symptoms occur.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Aspiration may cause pulmonary edema and pneumonitis. May cause an allergic skin reaction. Dermatitis. Rash.

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:

Foam. Dry chemicals. 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:

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

SPECIFIC FIREFIGHTING METHODS:

Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. 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. In the event of fire and/or explosion do not breathe fumes.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots and in enclosed spaces, SCBA.

GENERAL FIRE HAZARDS:

Extremely flammable aerosol. Combustible.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during cleanup. Avoid breathing gas. 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. Following product recovery, flush area with water. For waste disposal, see Section 13 of the SDS.

ENVIRONMENTAL PRECAUTIONS:

Avoid discharge into drains, watercourses 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. All equipment used when handling the product must be grounded. Do not reuse empty containers. Avoid breathing gas. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

SAFE STORAGE & INCOMPATIBILITIES:

Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls / Personal Protection

OCCUPATIONAL EXPOSURE LIMITS

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
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)	PEL	600 mg/m ³ 100 ppm

US. ACGIH Threshold Limit Values

COMPONENTS	TYPE	VALUE
Carbon Dioxide (CAS 124-38-9)	STEL TWA	30000 ppm 5000 ppm
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)	STEL TWA	150 ppm 100 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

COMPONENTS	TYPE	VALUE
Carbon Dioxide (CAS 124-38-9)	STEL TWA	54000 mg/m ³ 30000 ppm 9000 mg/m ³ 5000 ppm
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)	STEL TWA	900 mg/m ³ 150 ppm 600 mg/m ³ 100 ppm

US. Workplace Environmental Exposure Level (WEEL) Guides

COMPONENTS	TYPE	VALUE
Octamethylcyclotetrasiloxane (CAS 556-67-2)	TWA	10 ppm

BIOLOGICAL LIMIT VALUE:

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

EXPOSURE GUIDELINES:**US - California OELs: Skin designation:**

propylene Glycol Monomethyl Ether (CAS 34590-94-8): Can be absorbed through the skin.

US - Tennessee OELs: Skin designation:

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8): Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation:

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8): Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation:

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8): Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8): 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 goggles are recommended.

Skin Protection: Hand Protection: Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other: Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

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.

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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical & Chemical Properties

Physical State:	Gas.	Flammability (solid/gas):	Not available.
Form:	Aerosol.	Flammability Limit-lower (%):	0.5% estimated.
Color:	Not available.	Flammability Limit-upper (%):	4.4% estimated.
Odor:	Not available.	Explosive Limit – lower (%):	Not available.
Odor Threshold:	Not available.	Explosive Limit – upper (%):	Not available.
pH:	Not available.	Vapor Pressure:	60 - 80 psig @ 70°F estimated.
Melting/Freezing Point:	Not available.	Vapor Density:	Not available.
Initial Boiling Point/Range:	Not available.	Relative Density:	Not available.
Partition Coeff (n-octanol/water):	Not available.	Solubility (water):	Not available.
Viscosity:	Not available.	Auto-Ignition Temperature:	Not available.
Flash Point:	300.9°F (149.4°C) estimated.	Decomposition Temperature:	Not available.
Explosive Properties:	Not explosive.	Evaporation Rate:	Not available.
Oxidizing Properties:	Not oxidizing.		

10. Stability & Reactivity Information**REACTIVITY:**

The product is stable and nonreactive 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:

Keep away from heat, sparks and open flame. Contact with incompatible materials.

HAZARDOUS DECOMPOSITION PRODUCTS:

No hazardous decomposition products are known.

11. Toxicological Information**PRIMARY ROUTE OF ENTRY:**

Eyes: Direct contact with eyes may cause temporary irritation.

Skin: May cause an allergic skin reaction.

Inhalation: Prolonged inhalation may be harmful.

Ingestion: Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Aspiration may cause pulmonary edema and pneumonitis. May cause an allergic skin reaction. Dermatitis. Rash.

ACUTE TOXICITY:

May be fatal if swallowed and enters airways. May cause an allergic skin reaction.

COMPONENTS	SPECIES	TEST RESULTS
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	9510 mg/kg, 24 Hours
	Rat	10 ml/kg, 24 Hours
		> 19020 mg/kg, Hours
		> 20 ml/kg, Hours
<i>Inhalation</i>		
LC50	Rat	> 553 ppm, 8 Hours
		> 275 ppm, 7 Hours
<i>Oral</i>		
LD50	Dog	7.5 ml/kg
	Rat	> 5000 mg/kg
		5.4 ml/kg
Octamethylcyclotetrasiloxane (CAS 556-67-2)		
Acute		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg, 24 Hours
		> 2.5 ml/kg
<i>Inhalation</i>		
<i>Aerosol</i>		
LC50	Rat	36 mg/l, 4 Hours
<i>Oral</i>		
LD50	Mouse	1700 mg/kg
	Rat	>4800 mg/kg
Sulfonic Acids, Petroleum, Calcium Salts (CAS 61789-86-4)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	>4000 mg/kg, 24 hours
	Rat	>2000 mg/kg, 24 hours
<i>Inhalation</i>		
LC50	Rat	>1.9 mg/l, 4 hours
<i>Oral</i>		
LD50	Rat	>5000 mg/kg
White Mineral Oil (CAS 8042-47-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	>2000 mg/kg, 24 hours
<i>Inhalation</i>		
LC50	Rat	2.18 mg/l, 4 hours
<i>Oral</i>		
LD50	Rat	>5000 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:		
May cause an allergic skin reaction.		
GERM CELL MUTAGENICITY:		
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
CARCINOGENICITY:		
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
IARC Monographs. Overall Evaluation of Carcinogenicity: Not listed.		
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not regulated.		
US. National Toxicology Program (NTP) Report on Carcinogens: Not listed.		
REPRODUCTIVE TOXICITY:		
Suspected of damaging fertility.		
SPECIFIC TARGET ORGAN TOXICITY (single exposure):		
Not classified.		
SPECIFIC TARGET ORGAN TOXICITY (repeated exposures):		
Not classified.		
ASPIRATION HAZARD:		
May be fatal if swallowed and enters airways.		
CHRONIC EFFECTS:		
Prolonged inhalation may be harmful.		

12. Ecological Information

ECOTOXICITY:

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

PERSISTENCE AND DEGRADABILITY:

No data is available on the degradability of this product.

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:**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. 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, flammable, (each not exceeding 1 L capacity).
Transport Hazard Class(es)
 Class: 2.1
 Subsidiary Risk: -
 Label(s): 2.1



Packing Group: Not applicable.
Special Precautions for User: Not applicable.
Special Provisions: N82
Packaging Exceptions: 306
Packaging Nonbulk: None.
Packaging Bulk: None.

IATA: UN Number: UN1950
UN Proper Shipping Name: Aerosols, flammable.
Transport Hazard Class(es)
 Class: 2.1
 Subsidiary Risk: -
 Label(s): 2.1



Packing Group: Not applicable.

Environmental Hazards: No.

ERG Code: 10L

Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.

Other Information:

Passenger and Cargo Aircraft: Allowed with restrictions.

Cargo Aircraft Only: Allowed with restrictions.

Packaging Exceptions: LTD QTY

IMDG: UN NUMBER: UN1950
UN Proper Shipping Name: AEROSOLS.
Transport Hazard Class(es)
 Class: 2.1
 Subsidiary Risk: -
 Label(s): None.



Packing Group: Not applicable.

Environmental Hazards:

Marine pollutant: No.

EmS: F-D, S-U

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.

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

CERCLA Hazardous Substance List (40 CFR 302.4): Not 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 – Yes.
Delayed Hazard – Yes.
Fire Hazard – Yes.
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.

OTHER FEDERAL REGULATIONS

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

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)):

Octamethylcyclotetrasiloxane (CAS 556-67-2)

US. Massachusetts RTK - Substance List:

Carbon Dioxide (CAS 124-38-9)

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)

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

Carbon Dioxide (CAS 124-38-9)

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)

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

Carbon Dioxide (CAS 124-38-9)

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)

US. Rhode Island RTK: Not regulated.

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:

Myrcene (CAS 123-35-3): Listed: March 27, 2015

INTERNATIONAL INVENTORIES:

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
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)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
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.