





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 Reproductive toxicity (fertility): Category 2 Aspiration hazard: Category 1 Environmental hazards: Not classified. 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. 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. Wear protective gloves/protective clothing/eye protection/face protection.

Response: If swallowed: Immediately call a poison center/doctor. If exposed or concerned: Get medical advice/attention. Do NOT induce vomiting.

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 CLASSIFIED (HONK):

None known.

SUPPLEMENTAL INFORMATION:

None.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	Concentration % by Weight
White Mineral Oil (petroleum)	8042-47-5	40 - 60
Carbon Dioxide	124-38-9	2.5-10
Dipropylene Glycol Monomethyl Ether	34590-94-8	2.5-10
Methyl Silicone	556-67-2	2.5-10
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

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

SKIN: Wash off with soap and water.

INHALATION:

If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.

INGESTION:

Rinse mouth. Get medical attention if symptoms occur.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Aspiration may cause pulmonary edema and pneumonitis. 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:

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.

5. Fire Fighting Measures

SUITABLE EXTINGUISHING MEDIA:

Foam. Dry chemicals. Carbon dioxide (CO2).

UNSUITABLE 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.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:

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

enclosed spaces, SCBA.

FIREFIGHTING EQUIPMENT/INSTRUCTIONS:

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.

SPECIFIC METHODS:

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

GENERAL FIRE HAZARDS:

Extremely flammable aerosol. Flammable aerosol.

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.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

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. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand, or earth and place into containers. Prevent entry into waterways, sewer, basements, or confined areas. 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 discharge into drains, watercourses or onto the ground.

7. Handling and Storage

PRECAUTIONS FOR 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 re-use empty containers. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Level 2 Aerosol.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

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. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

Level 2 Aerosol.

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	PEL	9000 mg/m3 5000 ppm
Dipropylene Glycol	PEL	600 mg/m3
Monomethyl Ether (CAS 34590-94-8)		100 ppm

US. ACGIH Threshold Limit Values

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

US. NIOSH: Pocket Guide to Chemical Hazards

COMPONENTS	TYPE	VALUE
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3 30000 ppm
	TWA	9000 mg/m3 5000 ppm
Dipropylene Glycol	STEL	900 mg/m3
Monomethyl Ether (CAS 34590-94-8)	TWA	150 ppm 600 mg/m3 100 ppm

BIOLOGICAL LIMIT VALUES:

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

EXPOSURE GUIDELINES:

US - California OELs: Skin designation

Dipropylene 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/FACE PROTECTION:** Chemical goggles are recommended.**HAND PROTECTION:** Wear appropriate chemical resistant gloves. Use of an impervious apron is recommended.**THERMAL HAZARDS:** Wear appropriate chemical resistant gloves**RESPIRATORY PROTECTION:** If permissible levels are exceeded, use NIOSH mechanical filter/organic vapor cartridge or an air-supplied respirator.**GENERAL HYGIENE CONSIDERATIONS:** When using, do not eat, drink or 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:		SPECIFIC GRAVITY:	1.051 estimated
Physical State:	Gas.	Flammability Limit – lower (%):	0.6 % estimated.
Form:	Aerosol.	Flammability Limit – upper(%):	7 % estimated.
Color:	Brown.	Explosive Limit – lower (%):	Not available.
ODOR:	Characteristic.	Explosive Limit – upper (%):	Not available.
ODOR THRESHOLD:	Not available.	VAPOR PRESSURE:	65 - 85 psig @70°F estimated.
pH:	Not available.	VAPOR DENSITY:	Not available.
MELTING POINT:	Not available.	RELATIVE DENSITY:	Not available.
FREEZING POINT:	Not available.	SOLUBILITY (IES):	Not available.
PARTITION COEFFICIENT (n-octanol/water):	Not available.	AUTO-IGNITION TEMP:	834.8°F (446°C) estimated
INITIAL BOILING POINT AND BOILING RANGE	596.22°F (313.45°C) estimated	FLASH POINT	134.6°F (57.0°C) estimated
VISCOSITY:	Not available.	DECOMPOSITION TEMP:	Not available.
EVAPORATION RATE:	Not available.	FLAMMABILITY(solid/gas):	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:

Avoid temperatures exceeding the flash point. 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. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.**INHALATION:** Prolonged inhalation may be harmful.**SKIN CONTACT:** No adverse effects due to skin contact are expected.**EYE CONTACT:** Direct contact with eyes may cause temporary irritation.**SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL, AND TOXICOLOGICAL CHARACTERISTICS:**

Aspiration may cause pulmonary edema and pneumonitis. Direct contact with eyes may cause temporary irritation.

INFORMATION ON TOXICOLOGICAL EFFECTS ACUTE TOXICITY:**ACUTE TOXICITY:**

May be fatal if swallowed and enters airways.

COMPONENTS	SPECIES	TEST RESULTS
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)		

Acute
Dermal

LD50	Rabbit	9510 mg/kg, 24 Hours 10 ml/kg, 24 Hours
	Rat	> 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 5.4 ml/kg
White Mineral Oil (petroleum) (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
*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/EYE IRRITATION:		
Direct contact with eyes may cause temporary irritation.		
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.		
OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050):		
Not listed.		
SPECIFIC TARGET ORGAN TOXICITY - single exposure:		
Not classified.		
SPECIFIC TARGET ORGAN TOXICITY – repeated exposure:		
Not classified.		
ASPIRATION HAZARD:		
Not available.		
REPRODUCTIVE/TOXICITY:		
Suspected of damaging fertility.		
CARCINOGENIC INFORMATION:		
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
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.

BIOACCUMULATIVE POTENTIAL:

No data available.

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:

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, 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: Read safety instructions, SDS and emergency procedures before handling.
SPECIAL PROVISIONS: N82.
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, 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.
CARGO AIRCRAFT ONLY: Allowed.
PACKAGING EXCEPTIONS: LTD QTY.

IMDG

UN NUMBER: UN1950
UN PROPER SHIPPING NAME: AEROSOLS
TRANSPORT HAZARD CLASS(ES)
Class: 2.1
Subsidiary Risk: -
Label(s): 2.1



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. 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):

Not 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 – 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. 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: 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)	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 Territory	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.

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.