



SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	2707	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	4-N-1	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Non-Chlorinated Penetrant, Lubricant, Demoisurant, & Protectant	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Physical hazards: Not classified. Health hazards: Reproductive toxicity (fertility): Category 2 Aspiration Hazard: Category 1. OSHA defined hazards: Not classified.	SIGNAL WORD: DANGER	SYMBOL:	
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HAZARD STATEMENTS:

May be fatal if swallowed and enters airways. Suspected of damaging fertility. The mixture does not meet the criteria for classification.

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 SWALLOWED: Immediately call a poison center/doctor. IF EXPOSED OR CONCERNED: Get medical advice/attention. Do NOT induce vomiting.

Storage: Store locked up.

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
Dipropylene Glycol Monomethyl Ether	34590-94-8	2.5-10
Methyl Silicone	556-67-2	2.5-10
Other components below reportable levels		90-100

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

4. First Aid Measures

EMERGENCY OVERVIEW

WARNING: 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.

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:

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

INGESTION:

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

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.

5. Fire Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Water fog. Foam. Dry chemical powder. 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:

During fire, gases hazardous to health may be formed.

SPECIFIC FIRE-FIGHTING METHODS:

Cool containers exposed to heat with water spray and remove container, if no risk is involved. Use standard firefighting procedures and consider the hazards of other involved materials.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:

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

GENERAL FIRE HAZARDS:

No unusual fire or explosion hazards noted.

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. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

METHODS & MATERIALS FOR CONTAINMENT AND CLEAN UP:

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. 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. Never return spills to original containers for re-use. 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. 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.

SAFE STORAGE & INCOMPATIBILITIES:

Store locked up. Keep away from heat and sources of ignition. Store in original tightly closed container. 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
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)	PEL	600 mg/m ³ 100 ppm

US. ACGIH Threshold Limit Values

COMPONENTS	TYPE	VALUE
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)	STEL	150 ppm
	TWA	100 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

COMPONENTS	TYPE	VALUE
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)	STEL	900 mg/m ³ 150 ppm
	TWA	600 mg/m ³ 100 ppm

US. Workplace Environmental Exposure Level (WEEL) Guides

COMPONENTS	TYPE	VALUE
Methyl Silicone (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

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.

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: Wear appropriate chemical resistant gloves.

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:

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:		FLAMMABILITY(solid/gas):	Not available.
Physical State:	Liquid.	Flammability Limit-lower (%)	0.6% estimated
Form:	Liquid.	Flammability Limit-upper (%):	7% estimated
Color:	Not available.	Explosive Limit – lower (%):	Not available.
ODOR:	Not available.	Explosive Limit – upper (%):	Not available.
ODOR THRESHOLD:	Not available.	VAPOR PRESSURE:	0.02 psig @70°F estimated
pH:	Not available.	VAPOR DENSITY:	Not available.
MELTING/FREEZING POINT:	Not available.	RELATIVE DENSITY:	Not available.
INITIAL BOILING POINT/RANGE:	518°F (270°C) estimated	SOLUBILITY (water):	Not available.
PARTITION COEFFICIENT (n-octanol/water):	Not available.	AUTO-IGNITION TEMP:	834.8°F (446°C) estimated
VISCOSITY:	Not available.	DECOMPOSITION TEMP:	Not available.
SPECIFIC GRAVITY:	0.504 estimated	FLASH POINT:	291.7°F (144.3°C) estimated
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:

No dangerous reaction known under conditions of normal use.

INCOMPATIBLE MATERIALS:

Strong oxidizing agents.

CONDITIONS TO AVOID:

Avoid temperatures exceeding the flash point. 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: No adverse effects due to skin contact are expected.

INHALATION: Prolonged inhalation may be harmful.

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.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

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

ACUTE TOXICITY:

May be fatal if swallowed and enters airways.

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	Rat	>5000 mg/kg
Methyl Silicone (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

* 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 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:

Not applicable.

IARC Monographs. Overall Evaluation of Carcinogenicity: Not available.

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

US. National Toxicology Program (NTP) Report on Carcinogens: Not available.

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:

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.

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. 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.

14. Transportation Information

DOT: Not regulated as dangerous goods.

IATA: Not regulated as dangerous goods.

IMDG: Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not available.

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 – No.
Delayed Hazard – Yes.
Fire Hazard – No.
Pressure Hazard – No.
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)):

Methyl Silicone (CAS 556-67-2)

US. Massachusetts RTK - Substance List:

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

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

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

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

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 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.