

4-N-1 NEW FORMULA #1281901

Aerosol Multi-purpose Penetrant, Lubricant and Demoisturant



Features:

- Non-Flammable
- Penetrates & Cleans
- Frees Frozen Fittings
- Leaves Protecting, Non-Drying, Waterproof Film
- Dries Out Electrical Equipment
- 32,500 Volt Dielectric Strength
- Contains NO Chlorinated Solvents (NO 1,1,1-Trichloroethane) (NO Perchloroethylene) (NO Methylene Chloride)



Description:

4-N-1 penetrates through rust and scale to loosen parts which have been frozen by corrosion. Lubricates parts to ensure free and easy movement. Demoisturizes and creates a waterproof film that dries out electrical equipment, inhibits corrosion and prevents electrical discharge. Protects and creates a non-drying film that seals parts against atmospheric and mild chemical corrosion.

Applications:

- Bolts
- Fasteners
- Sliding & Rotating Parts
- Studs
- Hinges
- Electrical Equipment
- Other Fittings
- Frozen Nuts
- Bearings
- Screws
- Gears
- Clamps

Product Characteristics:

Appearance:	Amber misting cone
Odor:	Banana odor
Flammability(solid/gas):	Not considered a flammable liquid by OSHA (29CFR 1910.1200)
pH:	Not determined
Flash Point:	Not determined
Viscosity:	Not determined
Evaporation Rate:	Slow
Relative Density (H2O=1):	0.83 - 0.87 @ 77°F (25°C)
Solubility (ies):	Insoluble
Storage:	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.
Transport Information:	
UN Number:	UN1950
Proper Shipping Name:	Aerosols, Ltd. Qty.
Class:	2.2
Packing Group:	N/A

DOT Placard:

Not available.

VOC Compliancy:

Not available.

Directions:

TO REMOVE CORROSION: Spray liberally directly on to dirt and scale. Allow to penetrate. Remove loosened scale, then reapply to leave an anti-corrosive coating.

TO DISPLACE MOISTURE: Spray electrical equipment until thoroughly saturated. Allow to penetrate before attempting to restart, then reapply to protect surface.

TO LOOSEN FROZEN NUTS AND BOLTS: Apply liberally to frozen nuts and bolts, hinges and sliding and rotating parts. Allow to penetrate into threads. Work parts back and forth, then reapply to leave a never-dry, protective lubrication film.

TO ENSURE ADEQUATE PROTECTION, REAPPLY PERIODICALLY.

Pictograms:



Signal Word:

DANGER.

Personal Protective Equipment Required:





SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	1281901	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	4-N-1 New Formula	EMERGENCY TELEPHONE:	1-800-535-5053
PRODUCT DESCRIPTION:	Aerosol Multi-Purpose Penetrant, Lubricant and Demoisturant	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 Aspiration Hazard: Category 1	SIGNAL WORD: DANGER	SYMBOL:		
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HAZARD STATEMENTS:

DANGER: Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways.
This product contains the following percentage of chemicals of unknown toxicity: N/A

PRECAUTIONARY STATEMENTS:

Prevention: Keep away from heat, sparks, open flames and 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.
Response: IF SWALLOWED: Immediately call a poison center or doctor. Do NOT induce vomiting.
Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.
Disposal: Dispose of contents and container in accordance with local, state and federal regulations.

HAZARDS NOT OTHERWISE CLASSIFIED: N/A

3. Composition / Information on Ingredients

Chemical Name	CAS	Concentration % by Weight
White mineral oil	8042-47-5	60-80%
Carbon Dioxide	124-38-9	1-5%

Trade Secret Information: 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 for 15 minutes while holding eyelids open. Seek medical attention if irritation develops and persists.
SKIN: Wash thoroughly with water for 15 minutes. Seek medical attention if irritation develops. Take off contaminated clothing and wash it before reuse.
INHALATION:
Move to fresh air. If breathing difficulty persists, seek medical attention.
INGESTION:
Rinse mouth out with water. Do not induce vomiting unless directed by medical authority. Keep head below hips if vomiting occurs. Seek immediate medical attention. Aspiration hazard. Never give anything by mouth to an unconscious person.
ACUTE HEALTH HAZARDS:
Prolonged contact with skin may cause irritation. Contact with eyes may cause irritation, redness, tearing. Inhalation may cause respiratory tract irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.
CHRONIC HEALTH HAZARDS:
None known.
NOTE TO PHYSICIAN:
Treatment of overexposure should be directed at the control of symptoms and the clinical condition. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA:

Dry chemical, carbon dioxide, foam, and water spray or fog.

UNSUITABLE EXTINGUISHING MEDIA:

N/A

SPECIAL FIRE FIGHTING PROCEDURES:

Wear NIOSH approved Self-Contained Breathing Apparatus with a full-face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Avoid contact with skin and breathing smoke, fumes and decomposition products. Cool fire exposed containers with water fog to prevent bursting.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Non-combustible. Water spray may be used to keep fire exposed containers cool.

HAZARDOUS COMBUSTION PRODUCTS:

Various hydrocarbons.

6. Accidental Release Measures

PERSONAL PROTECTIVE EQUIPMENT:

Refer to Section 8 for proper Personal Protective Equipment.

SPILL: Absorb with non-combustible material like vermiculite, sand or earth. Place waste in proper containers for waste disposal. Small releases may be wiped up with wiping material.

WASTE DISPOSAL:

Dispose of in accordance with local, state and federal regulations. Do not reuse container; recycle or place in trash collection. Drums and pails should be offered for recycling.

RCRA STATUS:

Waste should be fully characterized prior to disposal (40 CFR 261).

7. Handling and Storage

HANDLING AND STORAGE:

Wear proper personal protective equipment when using this product. Store in a cool, dry area. Store only in original container. Store away from food and pet food. Do not use or store near heat, open flames or other sources of ignition. Do not use or store with strong oxidizers. Store locked up. Protect from sunlight. Keep container tightly closed when not in use. Wash hands thoroughly after handling.

OTHER PRECAUTIONS:

Keep out of the reach of children. Read and follow the directions on the product label. They are the best guide to using the product in the most effective manner. The label also gives you the necessary safety precautions to protect your health. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not taste or swallow.

INCOMPATIBILITY: Strong oxidizing agents.

8. Exposure Controls / Personal Protection

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
White mineral oil	5 mg/m ³ (oil mist)	5 mg/m ³ (oil mist)
Carbon Dioxide	5000 ppm	5000 ppm

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses/goggles.



Eye/Face Protection: Safety glasses/goggles.

Respiratory Protection: Not required with normal use. If vapors are present or irritation is experienced, use NIOSH/MSHA approved respirator.

ENGINEERING CONTROLS/VENTILATION:

General ventilation adequate.

ADDITIONAL MEASURES:

Wash hands thoroughly after handling.

9. Physical & Chemical Properties

Appearance:	Amber misting cone.	Flammability(solid/gas):	Not considered a flammable liquid by OSHA (29CFR 1910.1200).
Odor:	Banana odor.	Flammability Limit-lower (%):	Not determined.
Odor Threshold:	Not determined.	Flammability Limit-upper (%):	Not determined.
pH:	Not determined.	Explosive Limit-Lower (%):	Not determined.
Melting/Freezing Point:	Not determined.	Explosive Limit-Upper (%):	Not determined.
Initial Boiling Point/Range:	Not determined.	Vapor Density (AIR=1):	Not determined.
Flash Point:	Not determined.	Vapor Pressure (mm Hg):	Not determined.
Viscosity:	Not determined.	Relative Density (H2O=1):	0.83 - 0.87 @ 77°F (25°C).
Evaporation Rate:	Slow.	Solubility (ies):	Insoluble.
Auto-Ignition Temp:	Not determined.	Partition Coefficient: n-octanol/water (Kow):	Not determined.
Decomposition Temp:	Not determined.		

10. Stability & Reactivity Information

REACTIVITY:

None known.

CHEMICAL STABILITY:

Stable.

POSSIBILITY OF HAZARDOUS REACTIONS:

None known.

CONDITIONS TO AVOID:

Avoid open flame, electric arc, and other high energy ignition sources. Avoid incompatible materials.

INCOMPATIBLE MATERIALS:

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

None known.

11. Toxicological Information

TOXICOLOGICAL INFORMATION:

White mineral oil (8042-47-5): LD₅₀ (Oral, Rat) > 5000 mg/kg; LD₅₀ (Dermal) > 2000 mg/kg; LC₅₀ (Inhalation Dust/Mist, Rat, 4h) > 5 g/L.

ROUTES OF ENTRY: Eyes, Ingestion, Skin

EYES: May cause mild irritation, redness.

INGESTION: May cause gastrointestinal irritation, abdominal cramps. Ingestion of product may result in vomiting; aspiration (breathing) of vomitus into the lungs must be avoided as even small quantities may result in aspiration pneumonitis.

INHALATION: May cause respiratory tract irritation. No hazards with normal use.

SKIN: May cause mild irritation.

MEDICAL CONDITION AGGRAVATED:

None known.

ACUTE HEALTH HAZARDS:

Prolonged contact with skin may cause irritation. Contact with eyes may cause irritation, redness, tearing. Inhalation may cause respiratory tract irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

CHRONIC HEALTH HAZARDS:

None known.

CARCINOGENICITY: OSHA: No ACGIH: No NTP: No IARC: No OTHER: N/A

12. Ecological Information

ECOTOXICITY:

White mineral oil (8042-47-5): LC₅₀ (*Oncorhynchus mykiss*, 96h) 5000 mg/L; EC50 (*Daphnia magna*, 48h) 1000 mg/L.

PERSISTENCE AND DEGRADABILITY:

Component or components of this product are not biodegradable.

BIOACCUMULATIVE POTENTIAL:

Components in this mixture can bioaccumulate in aquatic organisms.

MOBILITY IN SOIL:

Not determined.

OTHER ADVERSE EFFECTS:

An environmental hazard cannot be excluded in the event of improper handling or disposal.

13. Disposal Consideration

WASTE DISPOSAL:

Dispose of in accordance with local, state and federal regulations. Do not reuse container; recycle or place in trash collection. Drums and pails should be offered for recycling.

RCRA STATUS:

Waste should be fully characterized prior to disposal (40 CFR 261).

14. Transportation Information

DOT: **PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.

HAZARD CLASS/DIVISION: 2.2

UN/NA NUMBER: UN1950

PACKING GROUP: N/A

IATA: **AIR SHIPMENT**

PROPER SHIPPING NAME: Aerosols, non-flammable.

HAZARD CLASS/DIVISION: 2.2

UN/NA NUMBER: UN1950

PACKING GROUP: N/A

IMDG: **SHIPPING BY WATER: VESSEL (IMO/IMDG)**

PROPER SHIPPING NAME: Aerosols.

HAZARD CLASS/DIVISION: 2.2

UN/NA NUMBER: UN1950

PACKING GROUP: N/A

ENVIRONMENTAL HAZARDS WATER: N/A

15. Regulatory Information

TSCA STATUS: All chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None.

SARA 311/312 HAZARD CATEGORIES: Aspiration hazard.

SARA 313 REPORTABLE INGREDIENTS: This product does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

CLEAN WATER ACT: None.

STATE REGULATIONS: California Proposition 65: This product does not contain chemicals regulated by California Proposition 65.

INTERNATIONAL REGULATIONS:

Listed or exempt from listing/notification on the following chemical inventories: Australian Inventory of Industrial Chemicals (AIIC, Australia); Domestic Substances List (DSL, Canada); Inventory of Existing Chemical Substances in China (IECSC, China); Korean Existing Chemicals Inventory (KECI, Korea); New Zealand Inventory of Chemicals (NZIoC, New Zealand).

VOLATILE ORGANIC COMPOUNDS (VOC): < 1%

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.

Contains NO Chlorinated Solvents (NO 1,1,1-Trichloroethane)
(NO Perchloroethylene) (NO Methylene Chloride)

PENETRATES through rust and scale to loosen parts which have been frozen by corrosion. **LUBRICATES** parts to ensure free and easy movement. **DEMOISTURIZES** and creates a waterproof film that dries out electrical equipment, inhibits corrosion and prevents electrical discharge. **PROTECTS** and creates a non-drying film that seals parts against atmospheric and mild chemical corrosion.

DIRECTIONS:

TO REMOVE CORROSION: Spray liberally directly on to dirt and scale. Allow to penetrate. Remove loosened scale, then reapply to leave an anti corrosive coating. **TO DISPLACE MOISTURE:** Spray electrical equipment until thoroughly saturated. Allow to penetrate before attempting to restart, then reapply to protect surface. **TO LOOSEN FROZEN NUTS AND BOLTS:** Apply liberally to frozen nuts and bolts, hinges and sliding and rotating parts. Allow to penetrate into threads. Work parts back and forth, then reapply to leave a never-dry, protective lubrication film. **TO ENSURE ADEQUATE PROTECTION, REAPPLY PERIODICALLY.**

NO contiene solventes clorados (NO 1,1,1-tricloroetano)
(NO percloroetileno) (NO cloruro de metileno)

PENETRA a través del óxido y las incrustaciones para aflojar las piezas que han quedado congeladas por la corrosión. **LUBRICA** las piezas para garantizar un movimiento libre y fácil. **DESHUMECTA** y crea una película impermeable que seca los equipos eléctricos, inhibe la corrosión y previene descargas eléctricas. **PROTEGE** y crea una película que no se seca y sella las piezas contra la corrosión atmosférica y química suave.

INSTRUCCIONES:

PARA ELIMINAR LA CORROSIÓN: Rocíe generosamente directamente sobre la suciedad y las incrustaciones. Dejar penetrar. Retire las incrustaciones sueltas y luego vuelva a aplicar para dejar una capa anticorrosiva. **PARA DESPLAZAR LA HUMEDAD:** Rocíe equipos eléctricos hasta que estén completamente saturados. Deje que penetre antes de intentar reiniciar, luego vuelva a aplicar para proteger la superficie. **PARA AFLOJAR TUERCAS Y PERNOS CONGELADOS:** Aplique generosamente a tuercas y pernos congelados, bisagras y piezas deslizantes y giratorias. Dejar penetrar en los hilos. Trabaje las piezas de un lado a otro, luego vuelva a aplicar para dejar una película lubricante protectora que nunca se seca. **PARA GARANTIZAR UNA PROTECCIÓN ADECUADA, VOLVER A APLICAR PERIÓDICAMENTE.**

4-N-1

DANGER: Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Keep away from heat, sparks, open flames, and 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. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Dispose of contents and container in accordance with local, state, and federal regulations.



FIRST AID: IF SWALLOWED: Immediately call a poison center or doctor. Do NOT induce vomiting.

CONTAINS: White mineral oil (8042-47-5), Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5), Carbon dioxide (124-38-9), Mineral oil (64742-52-5), Amyl acetate (628-63-7).

PELIGRO: Contiene gas a presión; puede explotar si se calienta. Puede ser mortal si se ingiere y penetra en las vías respiratorias. Mantener alejado del calor, chispas, llamas abiertas y superficies calientes. -No Fumar. No rocíe sobre una llama abierta u otra fuente de ignición. Envase a presión: No perforar ni quemar, incluso después de su uso. Proteger de la luz solar. No exponer a temperaturas superiores a 50°C/122°F. Almacenar en un lugar bien ventilado. Deseche el contenido y el contenedor de acuerdo con las regulaciones locales, estatales y federales.

PRIMEROS AUXILIOS: EN CASO DE INGESTIÓN: Llame inmediatamente a un centro de toxicología o a un médico. NO induzca el vómito.

CONTIENE: Aceite mineral blanco (8042-47-5), Destilados (petróleo), nafténico pesado tratado con hidrógeno (64742-52-5), Dióxido de carbono (124-38-9), Aceite mineral (64742-52-5), Acetato de amilo (628-63-7).

An Exclusive Product of PRO CHEM, INC.
1475 Bluegrass Lakes Parkway • Alpharetta, GA 30004
Procheminc.com • 1-800-241-8180

CAUTION: Use with adequate ventilation. Intentional misuse by concentrating and inhaling the product can be harmful or fatal. KEEP OUT OF REACH OF CHILDREN.

PRECAUCIÓN: Úselo con ventilación adecuada. El mal uso intencional al concentrar e inhalar el producto puede ser dañino o fatal. MANTENER FUERA DEL ALCANCE DE LOS NIÑOS.

See Safety Data Sheet for complete safety information.
Consulte la Hoja de datos de seguridad para obtener información de seguridad completa.

Emergency Telephone: INFOTRAC 1-800-535-5053
Teléfono de Emergencia: INFOTRAC 1-800-535-5053

MADE IN USA WITH GLOBALLY SOURCED MATERIALS
FABRICADO EN EE.UU. CON MATERIALES DE ORIGEN GLOBAL



PLEASE RECYCLE
WHEN EMPTY

Scan for Product
Info/SDS
1281901



**PRO
CHEM**®

NEW
FORMULA

With a
360°
Valve

4-N-1
**PENETRATING OIL
& DEMOISTURANT**
**ACEITE Y DESHUMEDECEDOR
PENETRANTE**
con Válvula de 360°

**Frees Rusted Bolts, Studs &
Other Fittings**

PENETRATES - CLEANS - NEVER DRIES
PENETRA - LIMPIA - NUNCA SE SECA

**NON-CHLORINATED
NON-FLAMMABLE
PENETRATES & CLEANS
FREES FROZEN FITTINGS
LEAVES PROTECTING,
NON-DRYING, WATERPROOF FILM
DRIES OUT ELECTRICAL EQUIPMENT
32,500 VOLT DIELECTRIC STRENGTH**

**NO CLORADO
ININFLAMABLE
PENETRA Y LIMPIA
LIBERA PIEZAS ATORADAS
DEJA UNA CAPA PROTECTORA
QUE NO SE SECA Y ES IMPERMEABLE
SECA EL EQUIPO ELÉCTRICO
FUERZA DIELÉCTRICA DE 32,500 VOLTIOS**

DANGER/PELIGRO:
CONTAINS GAS UNDER PRESSURE;
MAY EXPLODE IF HEATED.
CONTIENE GAS A PRESIÓN;
PUEDO EXPLOTAR SI SE CALIENTA.

NET WT. / PESO NETO: 14 OZ (397 g)