

ProGold, DeoxIT & PreservIT - 5% Aerosol

PRODUCT DESCRIPTIONS

ProGold outperforms all other contact cleaners, enhancers and lubricants. Due to its unique properties, it deoxidizes and cleans surface contamination, penetrates plated surfaces and molecularly bonds to the base metals - **NO OTHER PRODUCT DOES THIS**. ProGold increases conductivity, contact surface area and reduces arcing, RFI, wear and abrasion (the major cause of intermittent signals, distortion and signal loss).

DeoxIT is a fast-acting, deoxidizing solution that cleans, preserves, lubricates and improves conductivity on metal connectors and contacts. As a general rule, use ProGold for best performance and protection on plated surfaces and DeoxIT as a general purpose treatment.

PreservIT seals, lubricates and preserves metal surfaces for protection from oxidation and contamination. For use on clean/new surfaces or those pre-cleaned with DeoxIT. PreservIT contains no cleaners or deoxidizers. It provides long-lasting protection for newly manufactured components or those cleaned by ultrasonics, DeoxIT or other procedures. In some instances, PreservIT is recommended as a final treatment for surfaces that are in constant motion and/or subject to higher degrees of atmospheric contamination.

ProGold, DeoxIT and PreservIT 5% sprays provide a light treatment to metal connector and contact surfaces. The petroleum naphtha (odorless mineral spirits) solvent provides flushing action to assist in removing contaminants without harm to plastics and elastomeric parts.

COMPATIBILITY

ProGold (G5S-6, G5MS-15), **DeoxIT** (D5S-6, D5MS-15) and **PreservIT** (P5S-6) are compatible with most materials. However, in large scale use we recommend compatibility testing for the specific applications. Contact manufacturer for guidelines and assistance. Sprays include odorless mineral spirits (OMS) as the carrier solvent to assist flushing away contaminants. It is slow to evaporate but non-aggressive to most materials. Once it evaporates, a thin layer of ProGold, DeoxIT or PreservIT remains. Only thin layers are required for maximum performance. If solvents are not desired, use the 100% liquid (MSDS #PDP100L) or spray (MSDS #PDP100S).

SPRAY SELECTION GUIDE

Selection Guide:	Spray Type	Flammable/ Nonflammable	Carrier Solvent Evaporation Rate
ProGold G5 (#G5S-6, G5MS-15), DeoxIT D5 (D5S-6, D5MS-15), PreservIT P5 (P5S-6).	Aerosol	Flammable	2-3 min.
ProGold GP5 (#GP5S-6), DeoxIT DP5 (DP5S-6).	Pump	Nonflammable	days
* DeoxIT DN5 (#DNP5S-6).	Aerosol	Nonflammable	10-15 sec.
ProGold GXP (#GXP5S-6), R5 Power Booster (R5PS-6).	Pump	Nonflammable	10-15 sec.
ProGold GX5 (#GX5S-6, GX5MS-15), R5 Booster (R5MS-15).	Aerosol	Nonflammable	10-15 sec.

* Contains 141b solvent. For industrial use only. Safe on most plastics. Test for compatibility recommended.

DIRECTIONS FOR USE

ProGold G5S & ProGold G5MS Mini-Spray: Ideal for general purpose applications. Contains petroleum naphtha as carrier solvent. Though flammable, it is non-aggressive to almost all materials. Apply a short burst to metal surface then operate device to assist breaking up of oxide layers. For severely oxidized surfaces, apply DeoxIT first, wait a few minutes and using lint-free applicators on accessible surfaces, wipe until surface appears clean. In inaccessible areas, flush away oxides with ProGold G5, CaiKleen 41 or CaiKleen IPA. As a final step, spray a short burst of ProGold for protection. G5 includes precise, three-way adjustable valve for controlled dispensing.

DeoxIT D5S & DeoxIT D5MS Mini-Spray: Ideal for general purpose applications. Contains petroleum naphtha as the carrier solvent. It is flammable but non-aggressive to almost all materials. Apply a short burst to metal surface and operate device to assist breaking up of oxide layers. For severely oxidized surfaces, wait a few minutes before operating. Then use lint-free applicators on accessible surfaces and wipe until surface appears clean. In inaccessible areas, flush away oxides with DeoxIT D5, CaiKleen 41, CaiKleen A/V or CaiKleen IPA. As a final step, spray a short burst of DeoxIT for protection. Includes precise, three-way adjustable valve for controlled dispensing with minimal waste and overspray.

PreservIT P5S: Ideal for general purpose applications. Contains petroleum naphtha as carrier solvent. It is flammable but non-aggressive to almost all materials. After cleaning metal surface, apply a short burst of PreservIT. If accessible, wipe with a lint-free applicator. If discoloration appears, the metal surface is not clean - use DeoxIT or other cleaning method (ultrasonics) first. As a final step, spray a short burst of PreservIT for protection. PreservIT P5 includes precise, three-way adjustable valve for controlled dispensing with minimal waste and overspray.

ProGold, DeoxIT and PreservIT are supplied in liquid solutions for applications sensitive to solvents, requiring extra lubrication or preventing overspray. Refer to MSDS # PDP100L, Directions For Use (# SB-DIR, SB-AE and SB-SPEC) for additional information.

N/A = Not Applicable N/E = Not Established

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 COMMERCIAL PRODUCT NAME:	CODE NO.:
ProGold G5 Spray, 200 ml	G5S-6
ProGold G5 Mini-Spray, 20 ml	G5MS-15
DeoxIT D5 Spray, 200 ml	D5S-6
DeoxIT D5 Mini-Spray, 20 ml	D5MS-15
PreservIT P5 Spray, 200 ml	P5S-6

1.2 COMPANY: CAIG Laboratories, Inc.
 12200 Thatcher Court, Poway, CA 92064 U.S.A.
 CUSTOMER SERVICE: 858 / 486-8388 EMERGENCY, SPILL, LEAK, FIRE
 PREPARED BY: Mark K. Lohkemper OR EXPOSURE: CHEMTREC
 REVISION DATE: 07-08-1999 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1 HAZARDOUS INGREDIENTS	SYMBOL(S)	C.A.S. No.	WT. % RANGE
a) Petroleum naphtha		64742-88-7	75.0%
b) Isobutane/propane		75-28-5/74-98-6	20.0%
c) ProGold	Non-hazardous		5%
c) DeoxIT	Non-hazardous		5%
c) PreservIT	Non-hazardous		5%

2.2 OSHA HAZARDOUS COMPONENTS (29CFR1910.1200)
 a) Petroleum naphtha, 100ppm (PEL/TWA), 100ppm(TLV/TWA)
 b) Isobutane/propane, 800ppm/1000PPM (ACGIH-TLV)

TSCA INVENTORY: All ingredients are listed on the TSCA inventory.
 EC DIRECTIVE: Complies with EC Directive 91/155/EEC

3. HAZARDS IDENTIFICATION

Flammable solvent blend. Liquid will irritate eyes and skin under repeated or prolonged exposure. Breathing high concentrations of product vapor may produce drowsiness or headache. Product may be hazardous to fish & wildlife and may contaminate waterways. California Proposition 65: The California list of chemicals, "known to cause cancer or reproductive toxicity" is so extensive it requires more clarification, research and evaluation. Meanwhile, all chemicals distributed by, or manufactured by CAIG Laboratories, shall be assumed to be on the list or contain detectable amounts of chemical listed.

4. FIRST-AID MEASURES

- 4.1 SKIN CONTACT:** Wash with soap & water. Seek medical attention if irritation persists.
- 4.2 EYE CONTACT:** Immediately flush with plenty of water. Remove any contact lenses and continue flushing for at least 15 minutes. Seek medical attention if irritation develops or persists.
- 4.3 INGESTION:** Seek medical attention immediately. Induce vomiting only as directed by medical personnel.
- 4.4 INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Seek medical attention.

5. FIRE-FIGHTING MEASURES

- 5.1 FLASH POINT:** 43°C (110°F)
5.2 FLAMMABLE LIMITS, % VOL.: LOWER = 1.0, UPPER = 6.0
5.3 HMIS LABELING: HEALTH: 2 (moderate) FLAMMABILITY: 3 (high)
REACTIVITY: 1 (slight)
5.4 EXTINGUISHING MEDIA: Suitable - Alcohol foam, water fog, dry chemical, CO₂.
Not to be used: Water.
5.5 SPECIAL EXPOSURE HAZARDS: Carbon dioxide, carbon monoxide, hydrocarbons.
5.6 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 PERSONAL PRECAUTIONS:** Wear respiratory protection in confined spaces and appropriate personal protective equipment; eye protection, chemically resistant gloves. Ventilate area and remove all sources of ignition.
6.2 ENVIRONMENTAL PRECAUTIONS: Avoid runoff into sewers and ditches that lead to waterways.
6.3 METHODS OF CLEAN UP: Observe recommendations for personal protective equipment detailed in Section 8. For large spills, absorb with inert material such as sand, clay or dirt and place in sealed metal container for disposal. Since products are not normally used in large quantities and product is non-hazardous, absorb with inert material and discard as you would mineral oil.

7. HANDLING AND STORAGE

- 7.1 STORAGE:** Store in a cool, dry place, away from heat, sparks or flames. Keep container tightly closed when not in use. Do not store in direct sunlight. Keep out of reach of children.
7.2 HANDLING: Avoid prolonged or repeated contact with skin, eyes or clothing. Avoid breathing product vapor for extended periods of time. Use only with adequate ventilation. General ventilation should be adequate, but use local exhaust ventilation in confined spaces or at points of excessive discharge. Avoid activities that could cause splashing of the spilled material or create mists.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 ENGINEERING PROTECTIVE MEASURES:** General ventilation should be sufficient to control airborne vapor levels. Local exhaust ventilation should be used if large amounts are released.
8.2 PERSONAL PROTECTIVE EQUIPMENT
RESPIRATORY PROTECTION: Full-face respirator mask equipped with acid gas/organic vapor cartridge or fume hood or other type of local exhaust ventilation.
EYE PROTECTION: Wear safety glasses, splash goggles or a full-face shield depending on the amount of exposure and likelihood of a splash hazard.
HAND PROTECTION: Wear chemically resistant rubber gloves with repeated exposure.
OTHER: None required for normal conditions of industrial use.
8.3 INDUSTRIAL HYGIENE: Wash hands before eating or smoking when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 FORM:** Aerosol Liquid- see 1.1 for description
9.2 COLOR: ProGold (light-yellow), DeoxIT (light-red), PreservIT (light-blue).
9.3 ODOR: Etheral/hydrocarbon odor.
9.4 BOILING POINT: 160°C. **9.5 MELTING POINT:** N/A
9.6 RELATIVE DENSITY: N/E **9.7 VAPOR PRESSURE:** <12 @ 38°C
9.8 VAPOR DENSITY (Air=1): N/A **9.9 VISCOSITY (Water=1):** approx. 1

10. STABILITY AND REACTIVITY

- 10.1 HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon and unburned hydrocarbons.
10.2 CONDITIONS TO AVOID: Do not spray around open flames, sparks, or hot metal surfaces.
10.3 HAZARDOUS REACTIONS: Hazardous exothermic polymerization will not occur. Not sensitive to pressure, light or shock. Will not react with water. Does not require the use of stabilizers. Will not degrade to unstable products. Change in color signifies exposure to ultraviolet light or exceeding shelf life; discard solution.
10.4 MATERIALS TO AVOID: Strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

11.1 ROUTES OF EXPOSURE

- SKIN CONTACT:** Repeated or prolonged contact may cause dryness of skin, wash with soap and water and apply hand cream. Seek medical attention if irritation persists. Gloves are recommended.
EYE CONTACT: Contact with liquids, mists or vapors of this product can cause acute

eye irritation, stinging and swelling.

INGESTION: Harmful if swallowed. May cause acute irritation of the linings of the mouth, nose and throat. Vomiting may result, causing aspiration of material into the lungs, with the production of chronic pulmonary edema chemical pneumonia.

INHALATION: Harmful if product vapors are inhaled in high concentrations. May cause irritation to the lining of the lungs, with subsequent chronic pulmonary edema. Acute irritation of the mouth and nasal passages may result from overexposure.

Displacement of oxygen by chemical vapors may lead to drowsiness or unconsciousness.

FURTHER INFORMATION: None of the components of this product are known to have carcinogenic, mutagenic, teratogenic, sensitization effects. Breathing high vapor concentrations for long periods of time may lead to narcosis.

12. ECOLOGICAL INFORMATION

- 12.1 MOBILITY:** No product-specific data is available.
12.2 PERSISTENCE AND DEGRADABILITY: No product-specific data available.
12.3 BIOACCUMULATIVE POTENTIAL: No product-specific data available.
12.4 AQUATIC TOXICITY: No product-specific data is available.
12.5 OTHER DATA PERTAINING TO ECOTOXICITY: In large quantities, water runoff may cause environmental damage.

13. DISPOSAL CONSIDERATIONS

- 13.1 PREPARATION:** Product waste is suitable for fuels blending for energy recovery or disposal by incineration. Product may be recoverable by distillation or recycling. Landfilling is not recommended for disposal.
13.2 PACKAGING: Package, transport and dispose of in accordance with local or national regulations that apply to substances & preparations of this nature.

14. TRANSPORTATION INFORMATION

- 14.1 DOT -**
SHIPPING NAME: Consumer Product
CLASS: ORM-D
UN No.: Not required
14.2 IMDG -
SHIPPING NAME: Aerosol Products
CLASS: 2
UN No.: 1950
IMDG CODE: Page 2102
LABEL: Not required
14.3 IATA -
UN No.: ID-8000
CLASS or DIVISION: 9
LABEL: Consumer commodity ORM-D
SUBSIDIARY RISK: None
PACKAGING INSTRUCTIONS: 910
EMS: Chemtrec-USA **MFAG NO.:** #PDP5S
MARINE POLLUTANT: No
14.4 OTHER INFORMATION:

15. REGULATORY INFORMATION

EC HAZARD WARNING LABEL

Symbol and Classification: F Highly flammable

Risk Phrases: Highly flammable, Harmful if swallowed

Safety Phrases: Keep away from sources of ignition - No smoking. Avoid contact with eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Keep out of reach of children. Contains: petroleum naphtha solvent.

To be disposed of as hazardous waste. Users should also refer to any local or national regulations that apply to substance or preparations of this nature.

16. OTHER INFORMATION:

ENVIRONMENTAL IMPACT DATA (percent by weight)

CFC: 0.0%	HCFC: 0.0%	CL.SOLV.: 0.0%
VOC: 95.0%	HFC: 0.0%	ODP: 0.0%

All information and data contained in this literature are believed to be accurate, however, it should not be taken as definitive for all users. All materials may present unknown hazards and should be used with caution. Improper use can cause damage to products and to individuals health. Users should thoroughly test advertised products in their application, and independently determine satisfactory results before use in large scale production or manufacturing processes.



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