

MSDS #PD100S

ProGold and DeoxIT - 100% Aerosol

ProGold (G100L) and DeoxIT (D100L) are compatible with most materials.clarification, research and evaluation. Meanwhile, all chemicals However, in large scale use, we recommend compatibility testing for the specific applications. Contact manufacturer for guidelines and assistance. Sprays do not include solvents to assist in flushing away contaminants. Use as you would the 100% liquid products. If solvents are desired, use the 5% sprays (MSDS #PDP5S) or 5% liquids (MSDS #PDP5L).

needed (lubricating) and solvents are not desired (preventing overspray and if irritation persists. affecting sensitive plastics). This is a 100% concentrated spray and contains 4.2 EYE CONTACT: Immediately flush with plenty of water. Remove no solvents. ProGold G100S-2 utilizes a metered, one-shot valve to spray short bursts of 100% ProGold liquid. Use this spray as you would the 100% liquid ProGold. On accessible parts (edge connectors, batteries, etc.), apply and wipe off excess. On inaccessible parts (potentiometers, switches, etc.), spray one or two bursts of ProGold, flush with a "contact cleaner" that does not leave a residue (CaiKleen 41, CaiKleen A/V or CaiKleen IPA), then spray one final burst of ProGold. When flushing is not possible, spray one attention. burst, operate the device, reapply one more burst of ProGold. DeoxIT D100S-2: Use where maximum concentration of DeoxIT is needed (lubricating) and solvents are not desired (preventing overspray and affecting 5.1 FLASH POINT: 240°C (464°F) sensitive plastics). DeoxIT D100S is a 100% concentrate spray, and contain 5.2 FLAMMABLE LIMITS, % VOL.: N/E no solvents. DeoxIT D100S utilizes a metered valve to spray short bursts of 5.3 FLASH POINT (Difluoroetheane): <-50 °C (-58 °F) 100% DeoxIT liquid. Use this spray as you would the 100% liquid DeoxIT. 5.4 FLAMMABLE LIMITS, % VOL. (Difluoroetheane): On accessible parts (edge connectors, batteries, etc.), apply and wipe off excess. On inaccessible parts (potentiometers, switches, etc.), spray one or two bursts of DeoxIT, flush with a "contact cleaner" that does not leave a residue (CaiKleen 41, CaiKleen A/V or CaiKleen IPA), then spray one final burst. When flushing is not possible, spray one burst, operate the device,

1. CHEMICAL PRODUCT AND COMPANY INFORMATION 1.1 COMMERCIAL PRODUCT NAME (PRODUCT CODE NO.):

DeoxIT D100 Spray, 57 grams ProGold G100 Spray, 57 grams (G100S-2) (D100S-2)

1.2 COMPANY:

CAIG Laboratories, Inc. CUSTOMER SERVICE: CAIG: 1-858/486-8388 12200 Thatcher Court

Poway, CA 92064 U.S.A.

reapply one more burst of DeoxIT.

PREPARED BY: Mark K. EMERGENCY:

CHEMTREC: 1-800/424-Lohkemper

REVISION DATE: 06-16-2003

FORM #: PDP100S

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1 HAZARDOUS SYMBOL(S) C.A.S. WT.

INGREDIENTS No. % RANGE a) Difluoroethane 75-37-6 90% b) ProGold Non-hazardous 10% c) DeoxIT Non-hazardous 10%

2.2 OSHA HAZARDOUS COMPONENTS (29CFR1910.1200)

a) Difluoroethane, OSHA PEL and ACGIH TLV not established. TSCA INVENTORY: All ingredients are listed on the TSCA inventory. EC DIRECTIVE: Complies with EC Directive 91/155/EEC

3. HAZARDS IDENTIFICATION

Nonflammable 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

distributed by, or manufactured by CAIG Laboratories, shall be assumed to be on the list or contain detectable amounts of chemical

4. FIRST-AID MEASURES

Note: ProGold G100S-2: Use where maximum concentration of ProGold is 4.1 SKIN CONTACT: Wash with soap & water. Seek medical attention

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

5. FIRE-FIGHTING MEASURES

LOWER = 3.9, UPPER = 16.9

5.5 EXTINGUISHING MEDIA: Suitable - Alcohol foam, water fog, dry chemical, CO2. Not to be used: Water.

5.6 SPECIAL EXPOSURE HAZARDS: Carbon dioxide, carbon monoxide, hydrocarbons.

5.7 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: As in any fire, wear self-contained breathing apparatus and full protective

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.

KEEP OUT OF REACH OF CHILDREN

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 CFC: 0.0% HCFC: 0.0% CL.SOLV.: 0.0% acid gas/organic vapor cartridge or fume hood or other type of local exhaust VOC: 1.0% HFC: 0.0% ODP: 0.0%

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.

with local or national regul preparations of this nature.

8.4 NFPA and HMIS Codes:

	NFPA	HMIS
Health	-	2
Flammability	-	3
Reactivity	-	1
Personal Protection	_	_

9. PHYSICAL AND CHEMICAL PROPERTIES

9.5 MELTING POINT: N/A 9.1 FORM: Aerosol Liquid- see 1.1 for description 9.6 RELATIVE DENSITY: N/E 9.7 VAPOR PRESSURE: 87 9.2 COLOR: ProGold (yellow), DeoxIT (red) psia @ 25°C 9.3 ODOR: Etheral/hydrocarbon 9.8 SPECIFIC GRAVITY odor. (H20=1): 0.85 @ 25°C 9.4 BOILING POINT: 300°C (G100L&D100L), 0.90g/cc-(G100L&D100L), -25°C liquid @ 25°C (Difluoroetheane) (Difluoroetheane) 9.9 VISCOSITY (Water=1): N/A

10. STABILITY AND REACTIVITY

<u>10.1 HAZARDOUS DECOMPOSITION PRODUCTS</u>: Oxides of carbon and unburned hydrocarbons.

<u>10.2 CONDITIONS TO AVOID</u>: 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.

11.2 CANCER INFORMATION: No ingredients listed as human carcinogens by NTP or IARC.

11.3 REPRODUCTIVE EFFECTS: None 11.4 TERATOGENIC EFFECTS: None 11.5 MUTAGENIC EFFECTS: None

12. ECOLOGICAL INFORMATION

In large quantities, water runoff may cause environmental damage. ENVIRONMENTAL IMPACT DATA (percent by weight)

13. DISPOSAL CONSIDERATIONS

<u>13.1 PREPARATION</u>: Product waste is suitable for fuels blending for energy recovery or disposal by incineration. Product may be recoverable by distillation or recycling.

<u>13.2 PACKAGING</u>: 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
UN No.: Not Required
UN No.: 1950
IMDG Code: Page 2102
14.3 IATA
Label: Not Required

UN No.: ID-8000

Class: 9

Label: Consumer Commodity:

ORM-D EMS: Chemtrec-USA
Subsidiary Risk: None MFAG No.: #PD100S
Package Instructions: 910 Marine Pollutant: No

15. REGULATORY INFORMATION

15.1 SECTION 313 SUPPLIER NOTIFICATION: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning Community Right-To-Know Act of 1986 (40 CFR 372: NONE 15.2 TOXIC SUBSTANCES CONTROL ACT (TSCA):

All ingredients of this product are listed on the TSCA inventory. <u>15.3 WHMIS</u>: Not regulated. This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

EC HAZARD WARNING LABEL

Symbol and Classification: Flammable

Risk Phrases: Flammable

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: Difluoroethane.

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

Keep away from heat, sparks and other sources of ignition. Do not expose to heat or temperature above 120°F. Use in well ventilated areas.

All information and data contained in this literature is 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 may 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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