

Page 1 of 7 **G5S**

Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 11/01/2003

1.	PRODUCT IDEN	TIFICATION	CHEMICAL	RESPC	ONSE C	CARD:	02
1.1	Product Name:	ProGold, G5S-6, 5% Spray, 200 ml	RESPONSE	S	m		
1.2	Chemical Name:	See ingredients listed in section 2	TEAM PPE:	lacksquare			
1.3	Synonyms:	ProGold, G5S-6, 5% Spray	WHMIS:			Ŧ	
1.4	Trade Names:	ProGold, G5S-6, 5% Spray	W FINIS.	\bigcirc		$\overline{)}$	
1.5	Product Use:	Conditioner, enhancer for contacts & connectors	HEALTH:				1
1.6	Manufacturer's Name:	CAIG Laboratories, Inc.	FLAMMABILITY:		2		
1.7	Manufacturer's Address:	12200 Thatcher Court, Poway, CA 92064-6876	REACTIVITY: (0		
1.8	Business Phone:	+1 (800)-224-4123	PERSONAL P	ROTEC	TION:		В
1.9	Emergency Phone:	CHEMTREC 1-800-424-9300/1-703-527-388	7				
1.10	Other Product Names:	ProGold, G5MS-15, 5% Spray, 20 ml					

2. COMPOSITION & INGREDIENT INFORMATION

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						EXPO	SURE LIMI	TS IN AIR ((mg/m³)	
					AC	GIH		OSHA		OTHER
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV ppm	STEL ppm	PEL ppm	STEL ppm	IDLH ppm	
PETROLEUM NAPHTHA	64742-88-7	XS5250000	265-191-7	≤ 75	100	NE	100	NE	NE	
HYDROCARBON PROPELLANT:				≤ 20						
ISOBUTANE	75-28-7	TZ4300000	200-857-2		NE	NE	NE	NE	NE	
PROPANE	74-98-6	TX2275000	200-827-9		NE	NE	1000	NE	NE	
ProGold G100L	TRADE SECRET			≤ 5	NE	NE	NE	NE	NE	

NA = Not Available; ND = Not Determined; NE = Not Established; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2003 format.



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	ared to OSHA, AC	CC, ANSI, WHMIS & 2001/58 EC Standards	MSDS Revision: 1.0	MSDS Revision Date:	11/01/2003		
		3. HAZARD ID	FNTIFICATION				
3.1	concentration.	e liquid with ethereal and faint sweetish odor. At higher levels, CNS depression and cardiac ion in confined spaces.	Flammable aerosol. Overe				
3.2	Routes of Entry:	Inhalation: Y	ES Absorption:	YES Ingestion:	YES		
3.3	Effects of Exposure: EYES: Mild to moderate irritation. SKIN: Irritant and potential skin sensitizer. Prolonged or repeated contact may cause contact dermatitis (localized redness or rash). INGESTION: Gastrointestinal irritation and central nervous system depression. INHALATION: Central nervous system depressant. Irritating to the upper respiratory tract.						
5.4	Symptoms of Overexposure: EYES: Mild irritation, redness, and watering. SKIN: Contact dermatitis, characterized by localized red or puffy dry skin and itching. INGESTION: Nausea, vomiting, and diarrhea. INHALATION: Mouth, nose, and throat irritation, dizziness, nausea, light-headedness, drunkenness, and loss of coordination.						
3.5	Acute Health Effects: INGESTION: Gastrointestinal irritation and central nervous system depression. EYES: Mild to moderate irritation. SKIN: Irritant and potential skin sensitizer. Prolonged or repeated contact may cause contact dermatitis (localized redness or rash).						
	INGESTION: INHALATION:	Gastrointestinal irritation and central nervous s Central nervous system depressant. Irritating		rt.			
3.6 Chronic Health Effects: EYES: Mild to moderate irritation. SKIN: Irritant and potential skin sensitizer. Prolonged or repeated contact m							
			ged or repeated contact :	may cause contact dern	natitis (localize		
		Irritant and potential skin sensitizer. Prolong	ystem depression.	,	natitis (localized		
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.7	SKIN: INGESTION: INHALATION: Target Organs:	Irritant and potential skin sensitizer. Prolong redness or rash). Gastrointestinal irritation and central nervous s	ystem depression.	,	natitis (localized		
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Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 11/01/2003 5. FIREFIGHTING MEASURES Flashpoint & Method: 48.8 °C - 54.4 °C (120 °F - 130 °F). Level 2 aerosol. 52 Autoignition Temperature: NΔ Flammability Limits: 5.3 Lower Explosive Limit (LEL): NA Upper Explosive Limit (UEL): NA Fire & Explosion Hazards: 5.4 Carbon dioxide, carbon monoxide, hydrocarbons. 5.5 Extinguishing Methods: CO₂, Alcohol foam, Dry Chemical, Water Fog 5.6 Firefighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Use a water spray to cool containers involved in fire. Do not use direct water stream. Container storage areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure. Keep containers cool until well after the fire is out to prevent rupture. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURES Secure spill area and deny entry to all unprotected individuals. Individuals involved in the cleanup should wear appropriate personal protective equipment. Area may become slippery. Absorb product onto porous material, such as sand, clay, diatomaceous earth or commercial absorbent material. Place into leak-proof, U.S. DOT-approved containers. If necessary, cover all drains and dike well ahead of the spill to prevent runoff into sewers, drains, and all waterways. Contact appropriate local or provincial authorities for assistance and/or reporting requirements. 7. HANDLING & STORAGE INFORMATION 7 1 Work & Hygiene Practices: Wash hands thoroughly after using this product and before eating, drinking, or smoking. Remove soiled clothing to prevent prolonged skin contact. 72 Storage & Handling: Store at temperatures between 59 °F and 95 °F (15 °C and 35 °C) in a dry, well-ventilated location. Keep away from heat, sparks, open flame, and other sources of ignition. Normal shelf-life: 2-3 years. 7.3 Special Precautions: Empty containers can contain flammable vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION 8 1 Ventilation & Engineering Controls Use with adequate ventilation (e.g., open doors and windows, local exhaust ventilation). Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). 82 Respiratory Protection: None required, when used with adequate ventilation. 8.3 Wear safety glasses with side shields (ANSI Z87) under normal use conditions. 8.4 None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. In such cases, wear rubber or impervious plastic gloves. **Body Protection:** 8.5 Use as necessary to prevent skin contact.



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		9. PHYSICAL & CHEMICAL PRO	PERTIES	
1	Density:	0.75		
2	Boiling Point:	171.1 °C – 204 °C @ 760 mmHg		
3	Melting Point:	NA .		
4	Evaporation Rate:	0.11 (n-Butyl Acetate = 1.0)		
5	Vapor Pressure:	35 psig @ 20 °C, 50 psig @ 50 °C		
6	Molecular Weight:	NA		
7	Appearance & Color:	Light yellow, aerosol		
.8	Odor Threshold:	Ethereal/hydrocarbon odor		
.9	Solubility:	Not soluble in water		
.10	рН	ND		
.11	Viscosity:	10.0 cps		
.12	Other Information:	Vapor Density = 4.9 (Air = 1.0)		
		10. STABILITY & REACTIVI	TY	
0.1	Stability:	Stable under normal conditions of use (see secti	on 7).	
0.2	Hazardous Decomposition Products:	Change in color signifies exposure to ultraviole unstable products. Discard solution.	et light or e	exceeding shelf life. Will not degrade
0.3	Hazardous Polymerization:	Will not occur.		
0.4	Conditions to Avoid:	Use or storage near open flames, sparks, high hincompatible substances and heavily trafficked	•	F) or other heat sources, and proximity
0.5	Incompatible Substances:	Strong oxidizers.		
.1	Toxicity Data:	11. TOXICOLOGICAL INFORM This product has not been tested on animals to a	obtain toxic	
1.1	Toxicity Data:	11. TOXICOLOGICAL INFORM	obtain toxic	
	Toxicity Data: Acute Toxicity:	11. TOXICOLOGICAL INFORM This product has not been tested on animals to a for the components of this product, which are for	obtain toxic	
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1.2	Acute Toxicity:	11. TOXICOLOGICAL INFORM This product has not been tested on animals to a for the components of this product, which are for the presented in this document. See section 3.5	obtain toxic	
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14. TRANSPORTATION INFORMATION

The basic description (proper shipping name, hazard class & division, ID Number, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.

14.1 49 CFR (GND):

CONSUMER COMMODITY, ORM-D

14.2 IATA (AIR):

CONSUMER COMMODITY, 9, ID8000 (≤ 500 ml)

AEROSOLS, 2.1, UN1950 (> 500 ml)

14.3 IMDG (OCN):

AEROSOLS, 2, UN1950, LTD QTY (≤ 1.0 L)

14.4 TDGR (Canadian GND):

MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 1.0 L)



1950 AEROSOLS, 2, 5 A, ADR, LTD QTY

15. REGULATORY INFORMATION

15.1 SARA Reporting Requirements:

NA

14.5

15.2 SARA Threshold Planning Quantity:

NA

15.3 TSCA Inventory Status:

All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status.

15.4 CERCLA Reportable Quantity (RQ):

NA

15.5 Other Federal Requirements:

N/

15.6 Other Canadian Regulations

This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List.



15.7 State Regulatory Information:

The primary component of this product is not listed on the following state lists: California OSHA; California Proposition 65; Massachusetts Right to Know List of Chemicals; New Jersey Right to Know List 8:59 Appendix A; Pennsylvania Hazardous Substances List 34 323 Appendix A; Wisconsin Hazardous Substances List NR 605.09; Minnesota Hazardous Substances List; and Florida Toxic Substances List.

15.8 67/548/EEC (European Union) Requirements:

The primary component of this product is listed in Annex I of EU Directive 67/548/EEC:

<u>Petroleum Naphtha</u>: Flammable, Harmful (F, Xn). R: 10-65 — Flammable. Harmful: may cause lung damage if swallowed. S: 2-23-24-62 — Keep away from children. Do not breathe gas, fumes, vapor or spray. Avoid contact with skin. If swallowed, do not induce vomiting: seek medical advice immediately and show this MSDS or the container label.





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	1/ OTHER INFORMATION						
		16. OTHER I	NFORMATION				
16.1	Other Information:						
	NA						
16.2	Terms & Definitions:						
	See page 7 of this MSDS.						
16.3 Disclaimer:							
	This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & CAIG Laboratories, Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.						
16.4	Prepared for: CAIG Laboratories, Inc. 12200 Thatcher Court Poway, CA 92064-6876 +1 (800) CAIG-123 (244-4123) phone +1 (858) 486-8398 fax http://www.caig.com/	BALE LABORATORIES, III	NC.				
16.5	Prepared by: ShipMate, Inc. 18436 Hawthorne Blvd., Suite 201 Torrance, CA 90504 310-370-3600 phone 310-370-5700 fax http://www.shipmate.com/	ShipMat Dangerous Goods Training & Consult	e °				



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MSDS Revision Date: 11/01/2003

DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No. Chemical Abstract Service Number	
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EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
TLV	Threshold Limit Value
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
IDLH	Immediately Dangerous to Life and Health

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person
	whose heart has stopped receives manual chest
	compressions and breathing to circulate blood and provide
	oxygen to the body.

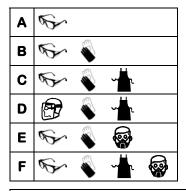
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard



PERSONAL PROTECTION RATINGS:







OTHER STANDARD ABBREVIATIONS:

NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

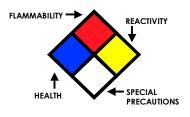
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autoignition	Minimum temperature required to initiate combustion
Temperature	in air with no other source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air, by
	volume, that will explode or ignite in the presence of
	an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air,
	by volume, that will explode or ignite in the presence of
	an ignition source

HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
-W -	Use No Water
OX	Oxidizer



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s				
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal				
ppm	Concentration expressed in parts of material per million parts				
TD _{Io}	Lowest dose to cause a symptom				
TCLo	Lowest concentration to cause a symptom				
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or				
TC, TC _o , LC _{io} , & LC _o	toxic effects				
IARC	International Agency for Research on Cancer				
NTP	National Toxicology Program				
RTECS	RTECS Registry of Toxic Effects of Chemical Substances				
BCF	Bioconcentration Factor				
TL _m	Median threshold limit				
log Kow or log Koc	Coefficient of Oil/Water Distribution				

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System				
DOT	U.S. Department of Transportation				
TC	Transport Canada				
EPA	U.S. Environmental Protection Agency				
DSL	Canadian Domestic Substance List				
NDSL	Canadian Non-Domestic Substance List				
PSL	Canadian Priority Substances List				
TSCA	U.S. Toxic Substance Control Act				
EU	European Union (European Union Directive 67/548/EEC)				

EC INFORMATION:

T.		N	*		Q	X	X
С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful