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MSDS-E-GN5S-6N

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 3.1 MSDS Revision Date: 01/29/2011 01 1. PRODUCT IDENTIFICATION CHEMICAL RESPONSE CARD: 1.1 Product Name: DeoxIT® G-Series, GN5S-6N, 5% Spray, 163 g **RESPONSE** 1.2 Chemical Name: **TEAM PPE:** See ingredients listed in section 2 1.3 Synonyms: DeoxIT® Gold, GN5S-6N, 5% Spray WHMIS: 1.4 Trade Names: DeoxIT® Gold, GN5S-6N, 5% Spray 1.5 Product Use: Conditioner, enhancer for contacts & connectors **HEALTH:** 1 1.6 Manufacturer's Name: CAIG Laboratories, Inc. FLAMMABILITY: 1 1 7 Manufacturer's Address: 12200 Thatcher Court, Poway, CA 92064-6876 PHYSICAL HAZARDS: 0 1.8 Business Phone: PERSONAL PROTECTION: +1 (800)-224-4123 В 1.9 Emergency Phone: CHEMTREC +1-800-424-9300/+1-703-527-3887 1.10 Other Product Names: 2. HAZARD IDENTIFICATION Hazard Identification: This product is Classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS according to the classification criteria of NOHSC: 1008 (2004) and ADG Code (Australia). Colorless, volatile liquid with ethereal and faint sweetish odor. Non-flammable material. Overexposure may cause dizziness and loss of concentration. At higher levels, CNS depression and cardiac arrhythmia may result from exposure. Vapors displace air and can cause asphyxiation in confined spaces. At high temperatures (>250°C), decomposition products may include Hydrofluoric Acid (HF) and carbonyl halides. 2.2 Routes of Entry: Inhalation: YES Absorption: YES Ingestion: YES 2.3 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. 2.4 Symptoms of Overexposure EYES: Mild irritation, redness, and watering. Contact dermatitis, characterized by localized red or puffy dry skin and itching. SKIN: INGESTION: INHALATION: Mouth, nose, and throat irritation, dizziness, nausea, light-headedness, drunkenness, and loss of coordination. 2.5 Acute Health Effects: Mild to moderate irritation. EYES: 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. 2.6 Chronic Health Effects: Mild to moderate irritation. EYES: 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. 2.7 Taraet Oraans: Eyes, skin and respiratory system. NA = Not Available; ND = Not Determined; NE = Not Established; NF; Not found; 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 Z400.1-2004 format



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	10. STABILITY & REACTIVITY		
0.1	Stability: Stable under normal conditions of use (see section 7).		
0.2	Hazardous Decomposition Products:		
	Change in color signifies exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Discard solution.		
0.3	Hazardous Polymerization: Will not occur.		
0.4	Conditions to Avoid:		
	Use or storage near open flames, sparks, high heat (>100 °F) or other heat sources, and proximity to incompatible substances and heavily trafficked areas.		
0.5	Incompatible Substances:		
	Strong oxidizers.		
	11. TOXICOLOGICAL INFORMATION		
1.1	Toxicity Data:		
	1,1,1,3,3-Pentafluoropropane: Acute Dermal (rabbit) – LD ₅₀ > 2,000 mg/kg; Cardiac Sensitization (dogs) – No effects noted at 35,000 ppm, the threshold for induction of cardiac arrhythmias in the presence of injected adrenalin was 44,000 ppm. Acute Inhalation (rat): 4-hr. LC ₅₀ > 200,000 ppm. No lethality at 200,000 ppm. Evidence of transient anesthetic effect. Acute Inhalation (mouse): 4-hr. LC50 > 100,000 ppm. No lethality at 100,000 ppm. Evidence of transient underactivity during exposure.		
11.2	Acute Toxicity:		
	See section 2.5		
1.3	Chronic Toxicity:		
	See section 2.6		
1.4	Suspected Carcinogen:		
1 5	NE Reproductive Toxicity:		
1.5	This product is not reported to produce reproductive toxicity in humans.		
	Mutagenicity: This product is not reported to produce mutagenic effects in humans.		
	Embryotoxicity: This product is not reported to produce embryotoxic effects in humans.		
	Teratogenicity: This product is not reported to produce teratogenic effects in humans.		
	Reproductive Toxicity: This product is not reported to produce reproductive effects in humans.		
1.6	Irritancy of Product:		
1.7	See Section 2.3		
1.7	Biological Exposure Indices: NE		
11.8	Physician Recommendations: Treat symptomatically.		
	12. ECOLOGICAL INFORMATION		
2.1	Environmental Stability:		
	This product will slowly volatile from soil. Components of this product will slowly decompose into organic compounds.		
2.2	Effects on Plants & Animals: There is no specific data available for this product.		
12.3	Effects on Aquatic Life:		
	1,1,1,3,3-Pentafluoropropane: Partition Coefficient: Log P_{OW} = 1.35 @ 21.5°C; Acute toxicity to Daphnia magna (Limit Test): NOEC > 97.9 mg/L; 48 hr. EC ₅₀ > 97.9 mg/L. Acute toxicity to Rainbow Trout (Limit Test): NOEC > 10 mg/L; 96 hr. EC ₅₀ > 81.8 mg/L		
	13. DISPOSAL CONSIDERATIONS		
13.1	Waste Disposal: Dispose of in accordance with federal, state or local regulations.		



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14. TRANSPORTATION INFORMATION

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

14.1	49 CFR (Ground):
	CONSUMER COMMODITY, ORM-D
14.2	IATA (Air):
	ID8000, CONSUMER COMMODITY, 9 (≤ 820 ml)
	UN1950, AEROSOLS, 2.2 (> 820 ml)
14.3	IMDG (Ocean):
	UN1950, AEROSOLS, 2.2, LTD QTY (≤ 1.0 L)
14.4	TDGR (Canada):
	MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LID QTY" or "QUANT LTÉE"
	(≤ 1.0 L)
14.5	ADR/RID (EU):
	UN1950, AEROSOLS, 2, 5 A, ADR, LTD QTY (X ≤ 1.0 L)
14.6	SCT (Mexico):
	UN1950, AEROSOLS, 2.2, CANTIDAD LIMITADA
14.7	ADGR (Australia):
	UN1950, AEROSOLS, 2.2, LTD QTY







15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements:	
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NA

15.2 SARA Threshold Planning Quantity:

N/

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):

15.5 Oth

Other Federal Requirements:

Contains HFC-245fa, a greenhouse gas, a substance which may contribute to global warming. Regulated under Section 612 (SNAP) of the Clean Air Act and 40 CFR Part 82, subpart G.

15.6 Other Canadian Regulation

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 components of this product are not listed in Annex I of EU Directive 67/548/EEC.





310-370-5700 fax

http://www.shipmate.com/

MATERIAL SAFETY DATA SHEET

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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
07101101	Charling and Application of the Charling Charlin

EXPOSURE LIMITS IN AIR:

ACGIH American Conference on Governmental Industrial Hygieni	
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.

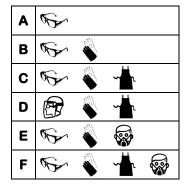
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

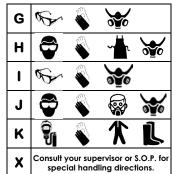
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

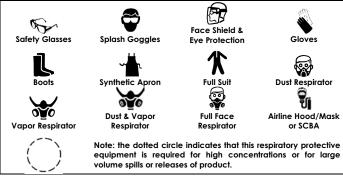
0	Minimal Hazard	
1 Slight Hazard		
2	Moderate Hazard	
3 Severe Hazard		
4	Extreme Hazard	



PERSONAL PROTECTION RATINGS:







OTHER STANDARD ABBREVIATIONS:

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

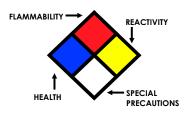
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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,
	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
ОХ	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 TC, TC _o , LC _{Io} , & LC _o	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TLm	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.		M	*			X	X
С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful