

Other Product Names:

NA

MATERIAL SAFETY DATA SHEET

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MSDS-E-CCS-802

Prep	pared to OSHA, ACC, A	ANSI, WHMIS & 2001/58 EC Standards	MSDS Revision: 1	MSDS Revision: 1.0 MSDS Revision Date: 09/15/2007				
1.	PRODUCT IDEN	TIFICATION		CHEMICAL RESPONSE CARD:				
1.1	Product Name:	DeoxIT®, CCS-802, 5% Spray, 14g		RESPONS	SE 🙈	(m)		
1.2	Chemical Name:	See ingredients listed in section 2		TEAM PP	E: 🝑			
1.3	Synonyms:	DeoxIT®, CCS-802, 5% Spray		WHMIS:		\mathbf{T}		
1.4	Trade Names:	DeoxIT®, CCS-802, 5% Spray		W 11/V(13.	\bigvee			
1.5	Product Use:	Connector Cleaner and Rejuvenator		HEALTH:	LTH: 2		2	
1.6	Manufacturer's Name: CAIG Laboratories, Inc. FLAMMABILITY:			0				
1.7	Manufacturer's Address:	12200 Thatcher Court, Poway, CA 92064-687	76	REACTIVITY:		0		
1.8	Business Phone:	usiness Phone: +1 (800)-224-4123 PERSONAL PROTECTION:		В				
1.9	Emergency Phone:	CHEMTREC 1-800-424-9300/1-	703-527-3887	 7				

2. COMPOSITION & INGREDIENT INFORMATION

						EXPO	SURE LIMI	TS IN AIR (mg/m³)	
					AC	GIH		OSHA		OTHER
CHEMICAL NAME(\$)	CAS No.	RTECS No.	EINECS No.	%	TLV ppm	STEL ppm	PEL ppm	STEL ppm	IDLH ppm	
1,1,1,3,3-PENTAFLUOROPROPANE	460-73-1	UNK	419-170-6	≤ 75	300	NE	300	NE	NE	
HYDROCARBON PROPELLANT:				≤ 20						
ISOBUTANE	75-28-5	TZ4300000	200-857-2		NE	NE	NE	NE	NE	
PROPANE	74-98-6	TX2275000	200-827-9		NE	NE	1000	NE	NE	
ISOPROPYL ALCOHOL	67-63-0	NT8050000	200-661-7	≤ 5	400	NE	400	NE	2000	
DeoxIT® D100L	TRADE SECRET	UNK	UNK	≤ 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 Z400.1-1998 format.



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3. HAZARD IDENTIFICATION

3.1 Hazard Identification:

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.

3.2 Routes of Entry: Inhalation: YES 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.

3.4 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:

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.

3.6 Chronic Health Effects:

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.

3.7 Target Organs:

Eyes, skin and respiratory system.

4. FIRST AID MEASURES

4.1 First Aid:

EYES: Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure

complete flushing. If irritation persists, seek immediate medical attention.

SKIN: Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt

medical attention. Do not wear contaminated clothing until after it has been properly cleaned.

INGESTION: Drink plenty of water. If irritation persists, contact a physician.

INHALATION: Remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and seek immediate

medical attention. If breathing stops, perform artificial respiration.

4.2 Medical Conditions Aggravated by Exposure:

None reported by the manufacturer.

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PROTECTIVE EQUIPMENT	

EYES SKIN

http://www.techni-tool.com



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5. FIREFIGHTING MEASURES

Flashpoint & Method:

ND. Level 1 aerosol.

5.2 **Autoignition Temperature:**

412 °C (774 °F) - 1,1,1,3,3-Pentafluoropropane

5.3 Flammability Limits:

Lower Explosive Limit (LEL): Upper Explosive Limit (UEL):

5.4 Fire & Explosion Hazards:

Carbon dioxide, carbon monoxide, hydrocarbons.

5.5 Extinguishing Methods:

CO₂, Alcohol foam, Dry Chemical, Water Fog

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

6.1

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

Work & Hygiene Practices

Wash hands thoroughly after using this product and before eating, drinking, or smoking. Remove soiled clothing to prevent prolonged skin contact.

7.2

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

Empty containers may contain product residues.

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).

8.2

None required, when used with adequate ventilation.

8.3 Eye Protection:

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.

8.5

Use as necessary to prevent skin contact.



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		9. PHYSICAL & CH	EMICAL PROPERTIES			
.1	Density:	NA				
.2	Boiling Point:	15 °C (59 °F) - 1,1,1,3,3-Pentafluoropropane				
.3	Melting Point:	NA				
.4	Evaporation Rate:	NA NA				
.5	Vapor Pressure:	NA				
.6	Molecular Weight:	NA				
.7	Appearance & Color:	Light red, aerosol				
.8	Odor Threshold:	Ethereal/hydrocarbon odor				
.9	Solubility:	Not soluble in water				
7.10	рН	NA				
7.11	Viscosity:	ND				
7.12	Other Information:	NA NA				
		1				
		10. STABILITY	' & REACTIVITY			
0.1	Stability:					
0.2	Hazardous Decomposition Products:	Stable under normal conditions of use (see section 7). Change in color signifies exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Discard solution				
10.3	Hazardous Polymerization:	unstable products. Discard solution. Will not occur.				
10.4	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.	neavily ilanicked aleas.			
	·	Silong Oxidizers.				
		11 TOYICOLOGI	CAL INFORMATION			
11.1	Toxicity Data:)		
	loxelly bald.	(dogs) – No effects noted at presence of injected adrenalin lethality at 200,000 ppm. Evide	35,000 ppm, the threshold fon was 44,000 ppm. Acute Inhonce of transient anesthetic ef	$D_{50} > 2,000 \text{ mg/kg; Cardiac Sensi}$ r induction of cardiac arrhythmias alation (rat): 4-hr. $LC_{50} > 200,000 \text{ pg}$ fect. Acute Inhalation (mouse): 4-hnsient underactivity during exposur	s in th om. N hr. LC5	
1.2	Acute Toxicity:	See section 3.5				
1.3	Chronic Toxicity:	See section 3.6				
1.4	Suspected Carcinogen:	NE				
1.5	Reproductive Toxicity:	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				
	Teratogenicity:	This product is not reported to	·			
1.6	Reproductive Toxicity: Irritancy of Product:	This product is not reported to	produce reproductive effects	in numans.		
1.7		See Section 3.3				
	Biological Exposure Indices:	NE				
1.8	Physician Recommendations:	Treat symptomatically.				
		10 50010010	AL INICODALATION			
			AL INFORMATION			
12.1	Environmental Stability:	This product will slowly volatil organic compounds.	e from soil. Components of	this product will slowly decompo	ose int	
2.2	Effects on Plants & Animals:	There is no specific data available for this product.				
12.3	Effects on Aquatic Life:		.9 mg/L; 48 hr. EC ₅₀ > 97.9 mg,	= 1.35 @ 21.5°C; Acute toxicity to D /L. Acute toxicity to Rainbow Trout		



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MSDS Revision Date: 09/15/2007 Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: Dispose of in accordance with federal, state or local regulations. 13.2 Special Considerations NA 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. 49 CFR (GND): CONSUMER COMMODITY, ORM-D 14.2 IATA (AIR): CONSUMER COMMODITY, 9, ID8000 (≤ 820 ml) AEROSOLS, 2.2, UN1950 (> 820 ml) IMDG (OCN): **ORM-D** 14.3 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) 14.5 1950 AEROSOLS, 2, 5 A, ADR, LTD QTY 15. REGULATORY INFORMATION 15.1 SARA Reporting Requirements: NA 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): NΑ 15.5 Other Federal Requirements: Contains HFC-245fg, 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 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. State Regulatory Information: 15.7 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. 67/548/EEC (European Union) Requirements: The primary component of this product is listed in Annex I of EU Directive 67/548/EEC:



310-370-5700 fax

http://www.shipmate.com/

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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

EXPOSURE LIMITS IN AIR:

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

FIRST AID MEASURES:

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.

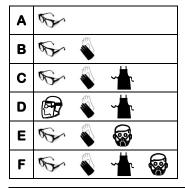
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard			
1	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

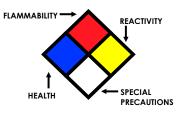
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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,
	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:

Minimal Hazard
Slight Hazard
Moderate Hazard
Severe Hazard
Extreme Hazard
Acidic
Alkaline
Corrosive
Use No Water
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 _{lo}	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, TCo, LCio, & LCo	toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
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.			*		\$	X	X
С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful