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MSDS-E-D100L

Prep	Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 09/02/2009									
•	1. PRODUCT IDENTIFICATION CHEMICAL RESPONSE CARD: 03									
	PRODUCT IDENTIFICATION			CHEMICA	AL RESPO	ONSE CAR): 03			
1.1	Product Name:	DeoxIT [®] D100L				RESPONSE				
1.2	Chemical Name:	See ingredients listed in section 3				TEAM PPE:				
1.3	Synonyms:	DeoxIT® D100L				WHMIS:	$\overline{\mathbf{T}}$			
1.4	Trade Names:	DeoxIT® D100L (see	e list below)			WIN/WIS.	\bigcirc			
1.5	Product Use:	Clean, deoxidize & improve electrical contacts & connectors			connectors	HEALTH:			0	
1.6	Manufacturer's Name:	CAIG Laboratories	, Inc.			FLAMMABILITY:				
1.7	Manufacturer's Address:	12200 Thatcher Co	ourt, Poway, CA 9206	4-6876		REACTIVIT	Y:		0	
1.8	Business Phone:	+1 (800)-224-4123				PERSONAL	PROTEC	TION:		
1.9	Emergency Phone:	CHEMTREC +	+1 (703) 527-3	887 / + 1	(800) 42	4-9300				
		DeoxIT® D100L, 2.3 ml (Part No. D100L-58D) DeoxIT® D100L, 7.4 ml (Part No. D100L-2DB) DeoxIT® D100L, 12 ml (Part No. D100L-12C) DeoxIT® D100L, 25 ml (Part No. D100L-25C) DeoxIT® D100L, 59 ml (Part No. D100L-2) DeoxIT® D100L, 236 ml (Part No. D100L-8) DeoxIT® D100L, 354 ml (Part No. D100L-12) DeoxIT® D100L, 472 ml (Part No. D100L-16) DeoxIT® D100L, 944 ml (Part No. D100L-32) DeoxIT® D100L, 30 L (Part No. D100L-8G)								
			0 1147400							
2.1	Hazard Identification:		2. HAZARD	IDENIIF	ICATION					
2.1	This product is NOT	classified as a HAZAR DG Code (Australia).						cation criteria	of [NOHSC:	
2.2	Routes of Entry:		Inhalation:	YES	Absorption:	YES	Inges	stion:	YES	
2.3	Effects of Exposure: EYES: Non-irritating when used as directed. Can cause irritation, tearing, and temporary blurred vision. SKIN: Non-irritating when used as directed. Prolonged or repeated contact may cause temporary contact dermatitis (localized redness or rash). INGESTION: Not probable. Small amounts if swallowed may cause temporary gastrointestinal irritation. INHALATION: Unlikely route of exposure. Should vapor concentrations exceed recommended exposure levels, they are temporary irritating to the eyes, nose, throat, and the respiratory tract; may cause temporary headaches and dizziness.									
2.4	Symptoms of Overexposure: EYES: Non-irritating when used as directed. Can cause temporary irritation, tearing, and blurred vision. SKIN: Non-irritating when used as directed. Prolonged or repeated contact may cause temporary contact dermatitis (localized redness or rash). INGESTION: Not probable. Small amounts if swallowed may cause temporary gastrointestinal irritation. INHALATION: Unlikely route of exposure. Should vapor concentrations exceed recommended exposure levels, they are temporary irritating to the eyes, nose, throat, and the respiratory tract; may cause headaches and dizziness.									
2.5 2.6	Acute Health Effects: EYES: None reported when used as directed. Mild to moderate temporary irritation. SKIN: Unlikely when used as directed. Repeated exposure at site of contact may cause temporary contact dermatitis (localized redness or rash). INGESTION: Not probable. Small amount may cause temporary gastrointestinal irritation and central nervous system depression. Unlikely route of exposure. Should vapor concentrations exceed recommended exposure levels, they are temporary irritating to the eyes, nose, throat, and the respiratory tract; may cause headaches and dizziness. Chronic Health Effects: Exposure of exposure integration integration.									
2.7	None reported by target Organs:	the manufacturer.								
	Eyes and skin.									

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 COM		N & INGRE			εΜΔΤΙά	N			
						EXPOSURE LIMITS IN AIR (mg/m ³)					
						AC	GIH		OSHA	(ing/in/)	OTHER
						TLV	STEL	PEL	STEL	IDLH	OTTER
	CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	ppm	ppm	ppm	ppm	ppm	
Deox	IT® D100L	Trade Secret	NA	NA	100	NE	NE	NE	NE	NE	
			4. FI	RST AID N	IEASU	RES					
4.1	First Aid:										
		eyes thoroughly lete flushing. If i						utes, hold	ling eyeli	d(s) oper	to ensure
		ve contaminate	-					ater Ifi	rritation r	oersists se	ek prompt
		cal attention. Do									
	INGESTION: Do no	t induce vomitin	ıg! Drink plent	y of water. If i	rritation p	oersists, co	ontact a p	ohysician	•		
		ve victim to fres					ster supp	lemental	oxygen	and seek	immediate
		cal attention. If I	oreathing stop	os, perform arti	ficial res	piration.	_				
4.2	Medical Conditions Aggravated None reported by the m						HEA	LTH			0
	None reponed by me m						FLA	ммав	ILITY		0
							REA	CTIVIT	Y		0
						-					
							EYES				
			5. FIRE	FIGHTING	MEAS	SURES					
5.1											
	> 250 °C (482 °F)										
5.2	Autoignition Temperature:										
5.3	Flammability Limits:		Lower Explo	osive Limit (LEL)	:	ND	Uppe	r Explosive	e Limit (U	EL):	ND
5.4	Fire & Explosion Hazards:										
	Carbon dioxide, carbon	monoxide, hyd	rocarbons.						_		
5.5	Extinguishing Methods: CO ₂ , Alcohol foam, Dry	Chemical Wate	r Fog								
5.6	Firefighting Procedures:		iiog						- 2	\sim	
	Wear NIOSH/MSHA app	roved self-conta	ined breathin	ig apparatus c	and prote	ective clo	thing. Us	e a wateı	r 🔨	<u>0 X</u>	0 >
	spray to cool containe										$\mathbf{\nabla}$
	exposed to direct flame weakening of container										
	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.										
		,				AEACU	DEC				
6.1	Spills:	0.	ACCIDE	NTAL RELE	EASE N	NEASU	KE2				
0.1	Ventilate if in enclosed with water. Deny entry equipment.										



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Prep	ared to OSHA, ACC, ANSI, WHN	IS, NOHSC & 2001/58 EC Standards	MSDS Revision: 2.0	MSDS Revision Date: 09/02/2009		
	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.					
7.2	Storage & Handling: Use and store in a cool, dry, well-ventilated area. Do not store near or with any incompatible materials listed in section 10. Open containers may change concentrations, keep tightly closed when not in use. Normal shelf life 2-3 years.					
7.3	Special Precautions: Empty containers may contain	product residues.				
		EXPOSURE CONTROLS & I	PERSONAL PROTEC	TION		
8.1		n (e.g., open doors and windows, I ink, safety shower, eye-wash station).		Ensure appropriate decontamination		
8.2	Respiratory Protection: None required, when used with	n adequate ventilation.				
8.3	Eye Protection: Wear safety glasses with side s	hields (ANSI Z87) under normal use co	onditions.			
8.4	Hand Protection: 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	Body Protection:					
	Use as necessary to prevent sk	in contact.				
		9. PHYSICAL & CHEM	ICAL PROPERTIES			
9.1	Density:	0.72				
9.2	Boiling Point:	> 220 °C (428 °F)				
9.3	Melting Point:	NA				
9.4	Evaporation Rate:	NA				
9.5	Vapor Pressure:	< 0.01 mm Hg @ 20 °C (68 °F)				
9.6	Molecular Weight:	NA				
9.7	Appearance & Color:	Light red				
9.8	Odor Threshold:	Ethereal/hydrocarbon odor				
9.9	Solubility:	Not soluble in water				
9.10	Ph	NA				
9.11	Viscosity:	5.4 – 7.5 cSt @ 104 °F				
9.12	VOC (g/L):	None				
9.13	Other Information:	NA				
		10. STABILITY &	REACTIVITY			
10.1	Stability:	Stable under normal conditions of u				
10.2	Hazardous Decomposition Products:	Change in color signifies exposure unstable products. Discard solution		ceeding shelf life. Will not degrade to		
10.3	Hazardous Polymerization:	Will not occur.				
10.4	Conditions to Avoid:	Use or storage near open flames, s incompatible substances and heav		or other heat sources, and proximity to		
10.5	Incompatible Substances:	Strong oxidizers.				



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Prep	ared to OSHA, ACC, ANSI, WH	IMIS, NOHSC & 2001/58 EC Standards	MSDS Revision: 2.0	MSDS Revision Date: 09/02/2009		
	11. TOXICOLOGICAL INFORMATION					
11.1	Toxicity Data:			gical data. There are toxicology data entific literature. These data have not		
		been presented in this document.	, which are found in the sci	emilic inerature. These data have not		
11.2	Acute Toxicity:	See section 3.5				
11.3	Chronic Toxicity:	See section 3.6				
11.4	Suspected Carcinogen:	NE				
11.5	Reproductive Toxicity:	This product is not reported to produ	uce reproductive toxicity in I	iumans.		
	Mutagenicity:	This product is not reported to produ				
	Embryotoxicity:	This product is not reported to produ				
	Teratogenicity:	This product is not reported to produ				
	Reproductive Toxicity:	This product is not reported to produ	uce reproductive effects in h	umans.		
11.6	Irritancy of Product:	See Section 3.3				
11.7	Biological Exposure Indices:	NE				
11.8	Physician Recommendations:	Treat symptomatically.				
		12. ECOLOGICAL	INFORMATION			
12.1	Environmental Stability:	This product will slowly volatile fro organic compounds.	m soil. Components of thi	s product will slowly decompose into		
12.2	Effects on Plants & Animals:	There is no specific data available f	or this product.			
12.3	Effects on Aquatic Life:	Releases of large volumes of this pro-	oduct are expected to be h	armful or fatal to overexposed aquatic		
		13. DISPOSAL CON	NSIDERATIONS			
13.1	Waste Disposal: Dispose of in accordance w	ith federal, state or local regulations.				
13.2	Special Considerations:	in rederal, share of local regulations.				
	NA					
		14. TRANSPORTATIO	N 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 and the CTDGR.					
14.1	49 CFR (GND): NOT REGULATED					
14.2	IATA (AIR):					
	NOT REGULATED					
14.3	IMDG (OCN): NOT REGULATED					
14.4	TDGR (Canadian GND):					
145						
14.5	ADR/RID (EU): NOT REGULATED					
15. REGULATORY INFORMATION						
15.1	SARA Reporting Requirements:					
15.0	NA SADA Thursele al al Diagonia a Quanatita					
15.2	SARA Threshold Planning Quantity:					
15.3	TSCA Inventory Status: All chemical substances of t	his product are listed on the TSCA inven	tory or are otherwise exemp	of from inventory status.		
15.4	CERCLA Reportable Quantity (RQ):					
15.5	Other Federal Requirements:					
	NA					



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	15. REGULATORY INFORMATION- continued					
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 not listed in Annex I of EU Directive 67/548/EEC.					
	16. OTHER INFORMATION					
16.1	Other Information: NA					
16.2	Terms & Definitions: See page last page 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/					
16.5	Prepared by: ShipMate, Inc. 18436 Hawthorne Blvd., Suite 201 Torrance, CA 90504 +1 (310) 370-3600 phone +1 (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	ACGIH American Conference on Governmental Industrial Hygienists			
TLV	Threshold Limit Value			
OSHA	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.				

HEALTH

FLAMMABILITY

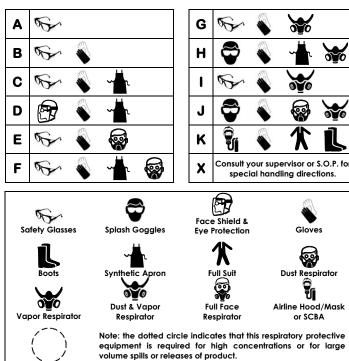
REACTIVITY PERSONAL PROTECTION

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	0 Minimal Hazard	
1	Slight Hazard	
2	Moderate Hazard	
3	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

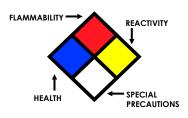
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autoignition Temperature	Minimum temperature required to initiate combustion 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:

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, TC _o , LC _{lo} , & LC _o	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	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:

V		<u>ک</u>	¥		⊗ X	×	×
С	E	F	Ν	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful