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MSDS-E-D100L

Prep	pared to OSHA, ACC, A	ANSI, WHMIS & 2001.	/58 EC Standa	ırds	MSDS F	Revision: 1	.0	MSDS F	Revision D	ate: 11/15	/2005
1.	PRODUCT IDEN	TIFICATION					CHEM	ICAL R	ESPON:	SE CARI	D: <b>03</b>
1.1	Product Name:	DeoxIT <sub>®</sub> D10	0L				RESPO	NSE	2	7	
1.2	Chemical Name:	See ingredients list	ted in section	2			TEAM F	PPE:	<b>₩</b>   ¾		
1.3	Synonyms:	DeoxIT® D100L					\A/I IN #IC	. (	Ŧ		
1.4	Trade Names:	DeoxIT® D100L (se	e list below)				WHMIS	, (	リ		
1.5	Product Use:	Clean, deoxidize	& improve ele	ctrical contac	ts & con	nectors	HEALTH	<del>1</del> :			0
1.6	Manufacturer's Name:	CAIG Laboratorie	s, Inc.				FLAMI	/IABILITY	<b>'</b> :		0
1.7	Manufacturer's Address:	12200 Thatcher Co	ourt, Poway, C	CA 92064-6876			REACT	IVITY:			0
1.8	Business Phone:	+1 (800)-224-4123					PERSO	NAL PRO	OTECTIO	N:	Α
1.9	Emergency Phone:	CHEMTREC 1-800-424-9300/1-703-527-3887									
		DeoxIT® D100L, 2 ml (Part No. D100L-2C, D100L-2CP) 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® PEN, 7 ml (Part No. D100P) DeoxIT® WIPES, 50 count (Part No. D50W) DeoxIT® D100L, 59 ml (Part No. D100L-2) DeoxIT® D100L, 236 ml (Part No. D100L-8) DeoxIT® D100L, 472 ml (Part No. D100L-16) DeoxIT® D100L, 944 ml (Part No. D100L-32) DeoxIT® D100L, 30 L (Part No. D100L-8G)									
		2 CON	/IPOSITIO	N & INGRE	DIFNI	INFOR	PMATIC	N			
		2. 301		I S III SKE					rs 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	
Deox	dT® D100L	TRADE SECRET	UNK	UNK	100	NE NE	NE NE	NE	NE	NE	
NA :	= Not Available; ND = N	Not Determined; NE	= Not Establis	hed; C = Ceilir	g Limit; s	See Sectio	on 16 for A	dditional	Definition	ns of Terms	s Used

NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-1998 format.



Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards

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3. HAZARD IDENTIFICATION Hazard Identification: 3.1 DeoxIT Power Booster D100L is non-volatile, non-hazardous and non-flammable. 3.2 Routes of Entry Inhalation: Absorption: YES Ingestion: YES Effects of Exposure: EYES: Mild to moderate irritation. SKIN: Prolonged or repeated contact may cause contact dermatitis (localized redness or rash). INGESTION: Gastrointestinal irritation & discomfort. INHALATION: Central nervous system depressant. Irritating to the upper respiratory tract. 3 4 Symptoms of Overexposure EYES: Mild irritation, redness, and watering. Contact dermatitis, characterized by localized red or puffy dry skin and itching. SKIN: INGESTION: Nausea, vomiting, and diarrhea. INHALATION: Mouth, nose, and throat irritation, dizziness, nausea, light-headedness, drunkenness, and loss of coordination. Acute Health Effects: 3.5 EYES: Mild to moderate irritation. SKIN: Repeated exposure at site of 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. Chronic Health Effects: 3.6 None reported by the manufacturer. 3.7 Target Organs: Eyes and skin. 4. FIRST AID MEASURES 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. Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt SKIN: medical attention. Do not wear contaminated clothing until after it has been properly cleaned. INGESTION: Do not induce vomiting! 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: HEALTH 0 None reported by the manufacturer. **FLAMMABILITY** 0 REACTIVITY 0 PROTECTIVE EQUIPMENT Α



8.5

Body Protection:

Use as necessary to prevent skin contact.

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Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 11/15/2005 5. FIREFIGHTING MEASURES Flashpoint & Method: > 250 °C (482 °F) Autoignition Temperature: NΑ Flammability Limits: 5.3 Lower Explosive Limit (LEL) ND Upper Explosive Limit (UEL) ND Fire & Explosion Hazards: 5.4 Carbon dioxide, carbon monoxide, hydrocarbons 5.5 Extinguishing Methods: CO2, Alcohol foam, Dry Chemical, Water Fog 5.6 Firefiahtina 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, 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 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 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 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.



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		9. PHYSICAL & CHEMICAL PROPERTIES							
.1	Density:	9. PHYSICAL & CHEWICAL PROPERTIES							
2	Boiling Point:	> 220 °C (428 °F)							
3	Melting Point:	NA							
4	Evaporation Rate:	NA NA							
5	Vapor Pressure:								
5	Molecular Weight:	< 0.01 mm Hg @ 20 °C (68 °F)							
7	Appearance & Color:	NA Limba and							
3	Odor Threshold:	Light red  Stherack/budge carbon addr							
9	Solubility:	Ethereal/hydrocarbon odor							
10	Ph Ph	Not soluble in water							
11	Viscosity:	NA							
12	Other Information:	5.4 - 7.5 cSt @ 104 °F							
12	Other Information.	NA							
		10. STABILITY & REACTIVITY							
.1	Stability:	Stable under normal conditions of use (see section 7).							
).2	Hazardous Decomposition Products:	Change in color signifies exposure to ultraviolet light or exceeding shelf life. Will not degrade unstable products. Discard solution.							
0.3	Hazardous Polymerization:	Will not occur.							
).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.							
).5	Incompatible Substances:	Strong oxidizers.							
.1	Toxicity Data:	This product has not been tested on animals to obtain toxicological data. There are toxicology defor the components of this product, which are found in the scientific literature. These data have been presented in this document.							
.2	Acute Toxicity:	See section 3.5							
.3	Chronic Toxicity:	See section 3.6							
.4	Suspected Carcinogen:	NE							
.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 produce embryotoxic effects in humans.							
	Teratogenicity:	This product is not reported to produce teratogenic effects in humans.							
.6	Reproductive Toxicity:  Irritancy of Product:	This product is not reported to produce reproductive effects in humans.							
.7	Biological Exposure Indices:	See Section 3.3							
.8	Physician Recommendations:	NE Treat symptometrically							
.0	Triysician Recommendations.	Treat symptomatically.							
		12. ECOLOGICAL INFORMATION							
2.1	Environmental Stability:	This product will slowly volatile from soil. Components of this product will slowly decompose it organic compounds.							
.2	Effects on Plants & Animals:	There is no specific data available for this product.							
2.3	Effects on Aquatic Life:	Releases of large volumes of this product are expected to be harmful or fatal to overexpos aquatic life.							
		13. DISPOSAL CONSIDERATIONS							
3.1	Waste Disposal: Dispose of in accordance with	n federal, state or local regulations.							
3.2	Special Considerations:  NA								



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Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 11/15/2005 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): 14.1 **NOT REGULATED** 14 2 IATA (AIR) **NOT REGULATED** 14.3 IMDG (OCN): **NOT REGULATED** 14.4 TDGR (Canadian GND): **NOT REGULATED** 14.5 ADR/RID (EU): **NOT REGULATED** 15. REGULATORY INFORMATION 15.1 SARA Reporting Requirements: 15.2 SARA Threshold Planning Quantity: 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 Other Federal Requirements: 15.5 NΑ Other Canadian Regulations 15.6 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.



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Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 11/15/2005 16. OTHER INFORMATION Other Information: 16.1 NΑ 16.2 Terms & Definitions: See page 7 of this MSDS. 16.3 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 quaranteed 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. Prepared for: 16.4 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 310-370-3600 phone 310-370-5700 fax



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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
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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.

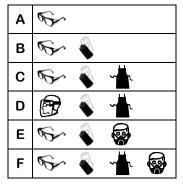
## HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

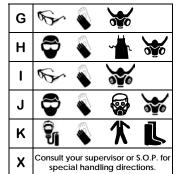
#### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

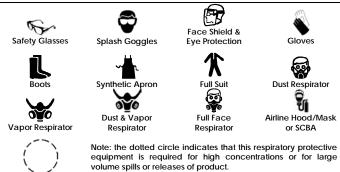
0	Minimal Hazard
1	Slight Hazard
2 Moderate Hazard	
3 Severe Hazard	
4	Extreme Hazard



### 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

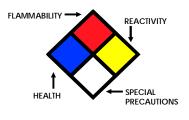
### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

### 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,
	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
<del>-₩</del> -	Use No Water
OX	Oxidizer



### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s
LC <sub>50</sub>	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD <sub>Io</sub>	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD <sub>Io</sub> , LD <sub>Io</sub> , & LD <sub>o</sub> 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 <sub>m</sub>	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.		*	*		<b>*</b>	×	×
С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful