

Page 1 of 7 **D100L** 

Prep	pared to OSHA, ACC, A	ansi, w	/HMIS & 2001/	<u>'58 EC Standa</u>	rds	MSDS R	evision: 1	.0	MSDS	Revision D	oate: 11/01/2	2003
1.	PRODUCT IDEN	TIFIC	ATION					СНЕМ	ICAL R	ESPON	SE CARD	03
1.1	Product Name:	De	oxIT Powe	er Booster	D100L			RESPO	NSE	<b>a</b> :	$\int_{\infty}^{\infty}$	
1.2	Chemical Name:	See i	ngredients list	ed in section 2	2			TEAM P	PE:	<b>₩</b>   ¹		
1.3	Synonyms:	Deox	dT Power Boos	ster D100L				VAZIJAAJO	. (	Ŧ		
1.4	Trade Names:	Deox	dT Power Boo	ster D100L (see	e list below)			WHMIS	. (	$\cdot$		
1.5	Product Use:	Clea	n, deoxidize 8	& improve elec	ctrical contac	ts & conr	nectors	HEALTH	ł:			0
1.6	Manufacturer's Name:	CAIG Laboratories, Inc. FLAMMABILITY: 0				0						
1.7	Manufacturer's Address:	12200 Thatcher Court, Poway, CA 92064-6876 <b>REACTIVITY:</b> 0				0						
1.8	Business Phone:	+1 (800)-224-4123 PERSONAL PROTECTION:			Α							
1.9												
	DeoxIT Power Booster D100L, 2 ml (Part No. D100L-2C) DeoxIT Power Booster D100L, 2.3 ml (Part No. D100L-58D) DeoxIT Power Booster D100L, 7.4 ml (Part No. D100L-2DB) DeoxIT Power Booster D100L, 12 ml (Part No. D100L-12C) DeoxIT Power Booster D100L, 25 ml (Part No. D100L-25C) DeoxIT Power Booster PEN, 7 ml (Part No. D100P) DeoxIT Power Booster WIPES, 50 count (Part No. D50W) DeoxIT Power Booster D100L, 59 ml (Part No. D100L-2) DeoxIT Power Booster D100L, 236 ml (Part No. D100L-8) DeoxIT Power Booster D100L, 472 ml (Part No. D100L-16) DeoxIT Power Booster D100L, 944 ml (Part No. D100L-32) DeoxIT Power Booster D100L, 30 L (Part No. D100L-8G)											
			2 COM	APOSITION	N & INGRE	DIENT	INFOR	PM ATIC	N			
			2. CON		1 & IIIOKL	DILI41	1141 01			TS IN AIR	(ma/m³)	
							AC	GIH		OSHA	,g <sub>/</sub> /	OTHER
	CHEMICAL NAME(S)		CAS No.	RTECS No.	EINECS No.	%	TLV ppm	STEL ppm	PEL ppm	STEL ppm	IDLH ppm	
Deox	IT Power Booster D100L		TRADE SECRET	UNK	UNK	100	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.



Page 2 of 7

D100L

Prep	Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 11/01/2003								
	3. HAZARD IDENTIFICATION								
3.1	Hazard Identification:								
	DeoxIT Power Booster D100L is non-volatile, non-hazardous and non-flammable.								
3.2	Routes of Entry:	Inh	nalation:	YES	Absorption:	YES	Ingest	ion:	YES
3.3	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.  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: 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.								
3.6	Chronic Health Effects: None reported by the manufacturer.								
3.7	Target Organs:								
	Eyes and skin.								
			4. FIRST A	ID ME	ASURES				
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.					o ensure			
	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: 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.					mediate			
4.2	Medical Conditions Ag	· ·			_	HEALTH			0
	None reported by	the manufacturer.					ABILITY		0
						REACTI			0
								UIPMENT	A
						EYES	J.11 V L LO	CON MILITI	
						LIES	ĺ		



Page 3 of 7 **D100L** 

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: > 250 °C (482 °F) 52 Autoignition Temperature: NΔ 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: CO<sub>2</sub>, 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 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 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). 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. 8.5 Body Protection: Use as necessary to prevent skin contact.



Page 4 of 7 **D100L** 

rep	ared to OSHA, ACC, ANSI, WHA	MIS & 2001/58 EC Standards	MSDS Revision: 1.0	MSDS Revision Date: 11/01/2003		
		O DILVEICAL O CIL	EAAIC AL DDODEDTIES			
.1	Density:	1	EMICAL PROPERTIES	)		
.2	Boiling Point:	0.72				
3	Melting Point:	> 220 °C (428 °F)				
4	Evaporation Rate:	NA NA				
5	Vapor Pressure:	NA				
.6		NA				
	Molecular Weight:	NA				
7	Appearance & Color:	Light red  Ethorogi/hydroggrhon odor				
8	Odor Threshold:	Ethereal/hydrocarbon odor				
.9	Solubility:	Not soluble in water				
		NA TO ALCOHOLO				
.11	Viscosity:	5.4 – 7.5 cSt @ 104 °F				
12	Other Information:	NA .				
		10. STABILITY	' & REACTIVITY			
).1	Stability:	Stable under normal condition				
0.2	Hazardous Decomposition Products:		osure to ultraviolet light or e	exceeding shelf life. Will not degrade		
0.3	Hazardous Polymerization:	Will not occur.				
0.4	Conditions to Avoid:			F) or other heat sources, and proximity		
0.5	Incompatible Substances:	Strong oxidizers.				
			duct, which are found in the	cological data. There are toxicology do scientific literature. These data have r		
1.2	Acute Toxicity:	See section 3.5				
1.3	Chronic Toxicity:	See section 3.6				
.4	Suspected Carcinogen:	NE				
.5	Reproductive Toxicity:	This product is not reported to	produce reproductive toxicity	y in humans.		
	Mutagenicity:	This product is not reported to				
	Embryotoxicity:	This product is not reported to	,			
	Teratogenicity:  Reproductive Toxicity:	This product is not reported to  This product is not reported to				
1.6	Irritancy of Product:	See Section 3.3	produce reproductive effects			
1.7	Biological Exposure Indices:	NE				
1.8	Physician Recommendations:	Treat symptomatically.				
		i ii sai sympiomaneany.				
			AL INFORMATION			
2.1	Environmental Stability:	organic compounds.		this product will slowly decompose in		
2.2	Effects on Plants & Animals:	There is no specific data availa	able for this product.			
2.3	Effects on Aquatic Life:	Releases of large volumes of aquatic life.	f this product are expected	I to be harmful or fatal to overexpose		
		13. DISPOSAL C	CONSIDERATIONS			
3.1	Waste Disposal: Dispose of in accordance with	n federal, state or local regulation				
3.2	Special Considerations: <b>NA</b>					



Page 5 of 7 **D100L** 

Prep	ared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards	MSDS Revision: 1.0	MSDS Revision Date: 11/01/2003
	14. TRANSPORTATION	INFORMATION	
	pasic description (proper shipping name, hazard class & division, ID Nurtional descriptive information may be required by 49 CFR, IATA/ICAO, I		hown for each mode of transportation.
14.1	49 CFR (GND): 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 IN	FORMATION	
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 inventor	ry or are otherwise exemp	ot from inventory status.
15.4	CERCLA Reportable Quantity (RQ):		
	NA		
15.5	Other Federal Requirements:  NA		
15.6	Other Canadian Regulations		
13.0	This product has been classified according to the hazard criteria of the (CPR) and the MSDS contains all of the information required by the CP are listed on the DSL/NDSL. None of the components of this products substances List.	R. The components of thi	s product ( )
15.7	State Regulatory Information:		
	The primary component of this product is not listed on the foll Massachusetts Right to Know List of Chemicals; New Jersey Right to List 34 323 Appendix A; Wisconsin Hazardous Substances List NR 6 Substances List.	Know List 8:59 Appendix A	A; Pennsylvania Hazardous Substances
15.8	67/548/EEC (European Union) Requirements:  The primary component of this product is not listed in Annex I of EU Dir	rective 67/548/EEC.	



http://www.shipmate.com/

### **MATERIAL SAFETY DATA SHEET**

Page 6 of 7 **D100L** 

Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 11/01/2003 16. OTHER INFORMATION 16.1 Other Information: NA 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 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 310-370-3600 phone 310-370-5700 fax



Page 7 of 7 **D100L** 

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

MSDS Revision: 1.0

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
--

### **EXPOSURE LIMITS IN AIR:**

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.

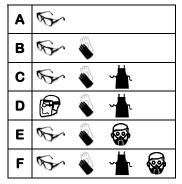
### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

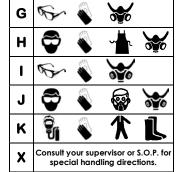
#### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

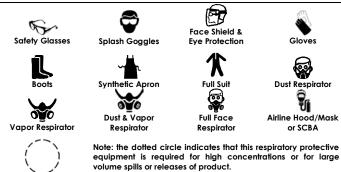
0	Minimal Hazard	
1	Slight Hazard	
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	



### 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

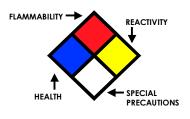
### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

### FLAMMABILITY LIMITS IN AIR:

Autoignition   Minimum temperature required to initiate combusti			
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>-W</del> -	Use No Water
OX	Oxidizer
ОХ	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>lo</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
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.		N	*		<b>Q</b>	X	X
С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful