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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 4.0

SDS Revision Date: 1/21/2015

Prepa	ared to OSHA, ACC, ANSI, N	IOHSC, WHMIS,	2001/58 & 1272/20	008/EC Standard	ls	SDS	Revision	: 4.0	SDS Rev	vision Date:	1/21/2015
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		<u> </u>	PRODUC	I & COMI	<u>PANY</u>	IDENTIF	-ICA	IION			
1.1	Product Name:	DEOXIT® D-SERIES Pen, (P/N D100P), 6 mL, 100% Solution, 0% VOC									
1.2	Chemical Name:	NA	·								
1.3	Synonyms:	DeoxIT® D-S	Series; P/N D100	P							
1.4	Trade Names:	DeoxIT® D10	0L								
1.5	Product Uses & Restrictions:	Clean, Deoxi	dize & Improve E	Electronic Con	tacts & C	onnectors					
1.6	Distributor's Name:	CAIG Labora									
1.7	Distributor's Address:		ner Court, Poway	v. CA 92064-6	876 USA						
1.8	Emergency Phone:		C: +1 (703)			1 424-930	n (CCI	N YYYYY	1		
1.9	Business Phone / Fax:	+1 (800) 224		021 0001 1	11 (000	) <del>1</del> 24 300	0 (00.	1 AAAAAA	·)		
		11 (000) 224	7120								
	1	T		ZARDS I							
2.1	This product is classified as a HAZARDOUS SUBSTANCE but NOT as DANGEROUS GOODS according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia).  DeoxIT®, 100% solution is non-volatile, non-hazardous and non-flammable.  WARNING! CAUSES EYE IRRITATION.  Classification: Eye Irritant 2;  Hazard Statements (H): H220 – Causes eye irritation.  Precautionary Statements (P): P264 – Wash thoroughly after handling. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 – If eye irritation persists: Get medical advice/attention.					<b>(</b>					
			OMPOSITI		•						
		<u> </u>	J J	<u> </u>			<u> </u>	EXPOSURE L	IMITS IN AI	R (mg/m³)	
						ACGIH	N	IOHSC		SHA	
						ppm		ppm	р	pm	
							ES-	ES- ES-			
CHEM	ICAL NAME(S)	NA	NA	NA	% 60-100	NA NA		STEL PEAK		TEL IDLH NA NA	OTHER
PROF	PRIETARY MIXTURE	INA	INA	INA	100-100	INA INA	I INF [I	NF INF	INA I	NA I INA	
			1	FIDST AII	D ME	SIIDES					
4.1	First Aid:	## A. FIRST AID MEASURES    Ingestion:   If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed.    Eyes:   Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes lifting upper and lower lids, occasionally.									
		Inhalation:	Remove victim artificial respira	tion. Keep pe	rson warr	n, quiet and	get med	lical attentio		reathing st	ops give
4.2	Effects of Exposure:	Ingestion: Eyes:	If product is sw Moderately irrit watering.						clude red	lness, itchii	ng, irritation and
		Skin:	some sensitive	individuals.	e product	can cause a	allergic s	skin reaction	ns (e.g., r	ashes, wel	lts, dermatitis) in
		Inhalation:	None expected								
4.3	Symptoms of Overexposure:	Ingestion: Nausea, intestinal discomfort, vomiting and/or diarrhea.   Eyes: Overexposure in eyes may cause redness, itching and watering.   Skin: Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. Frostbite like symptoms. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some individuals.									
4.4	Acute Health Effects:								affected	l areas. A	Additionally, high
4.5	Chronic Health Effects:	Non-irritating when used as directed. Overexposure may trigger asthma-like symptoms in some sensitive individuals. May also induce skin sensitization and respiratory hypersensitivity. Possible allergic dermatitis.									
4.6	Target Organs:	Eyes, Skin.									
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		4. FIRS	T AID ME	EASUR	ES – co	ont'd					
4.7	Medical Conditions Aggravated by Exposure:	osure:					FLAMMABILITY			0 0 0	
						PR	OTEC	LIVE E			В
						EYI	ES	SKIN			
		5. FIF	REFIGHT	ING ME	ASURI	ES					
5.1	Fire & Explosion Hazards:	This product is not flammable temperatures to form toxic ga	ises (e.g., CO,	CO <sub>x</sub> ).				compose	e at hig	jh	
5.2	Extinguishing Methods: Firefighting Procedures:	Water, Foam, CO <sub>2</sub> , Dry Chen									
3.3	Triengiung Freeduces.	Fight fires as for surrounding materials. As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) and full protective gear. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Avoid spraying water directly into storage containers because of danger of boil-over. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.									
	•	6. ACCIDI			E MEA	SURES	3				
6.1	Spills:	Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. Plastic or rubber gloves, respirator, eye protection and apron may be required for clean-up of large spills. <a href="Small Spills">Small Spills</a> : Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible material such as vermiculite or sand to soak up the product and place into a container for later disposal. Do not use water or a material such as "speedy dry" to soak up material. Sweep up material using non-sparking materials (e.g., plastic brooms, shovels, dustpans) and place into a plastic container or plastic liner within another container.  Large Spills: Keep incompatible materials (e.g., organics such as oil) away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant.									
		7. HANDLIN	NG & STC	RAGE	INFOR	MATIC	DN				
7.1	Work & Hygiene Practices:	Do not eat, drink or smoke when handling this product. Contents under pressure. Handle as to avoid puncturin container(s). When used as intended, no additional protective equipment is necessary. Use chemical goggles if ey contact is possible. Wash unintentional residues with soap and warm water.				puncturing ggles if eye					
7.2	Storage & Handling:	Use and store in a cool, dry sunlight. Avoid temperatures damage. To avoid unintentio	/, well-ventilate above 120 °F	ed location . Keep aw	(e.g., loca ay from inc	al exhaust ompatible	ventilat substar				
7.3	Special Precautions:	Clean all spills promptly. Spi									
		8. EXPOSURE CO	NTROLS	& PFR	SONAI	PRO	TFCT	ION			
8.1	Exposure Limits:		ACGIH		NOHSC			OSHA		OTHER	
	ppm (mg/m³)	CHEMICAL NAME(S)	TLV STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH		
8.2	Ventilation & Engineering Controls:	NA N				lling of this					
8.3	Respiratory Protection:	No special respiratory protection is required under typical circumstances of use or handling. In instances where dusts of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia.									
8.4	Eye Protection:	Avoid eye contact. None red when handling or using large				se. Safety	glasse	s could	be use	ed 🕞	
8.5	Hand Protection:	None required under normal sensitive individuals. When himpervious plastic gloves.									
8.6	Body Protection:	No apron required when han eye wash stations and delug	impervious plastic gloves.  No apron required when handling small quantities. When handling large quantities (e.g., ≥ 5 lbs), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.								



Environmental Stability:

Effects on Aquatic Life:

Effects on Plants & Animals:

12.1

12.2

12.3

Page 3 of 5 SAFETY DATA SHEET SDS-E-D100P Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 1/21/2015 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Appearance: Light red 92 Odor: Ethereal / hydrocarbon odor 9.3 Odor Threshold: NA 9.4 NA 9.5 Melting Point/Freezing Point: NA Initial Boiling Point/Boiling 9.6 >220 °C (428 °F) 9.7 Flashpoint: >250 °C (482 °F) 9.8 Upper/Lower Flammability NA 99 Vapor Pressure: < 0.1 mm Hg @ 20 °C (68 °F) 9.10 Vapor Density: NA 9.11 Relative Density: 0.72 9.12 Solubility: Soluble Partition Coefficient (log Pow): 9.13 NA 9.14 Autoignition Temperature NA 9.15 Decomposition Temperature: NA 5.4-7.5 cSt @ 104 °F Other Information: 9.17 NA 10. STABILITY & REACTIVITY 10.1 Stability: Stable under normal conditions; unstable with heat or contamination. 10.2 Hazardous Decomposition Oxides of carbon (CO, CO<sub>2</sub>). Products Hazardous Polymerization: 10.3 Will not occur. Conditions to Avoid: Open flames, sparks, high heat, incompatible substances and direct sunlight. 104 Incompatible Substances: 10.5 Avoid extreme heat and ignition sources. Store away from oxidizers. 11. TOXICOLOGICAL INFORMATION Routes of Entry: 11.1 Inhalation: YES Absorption: YES Ingestion: YES 11.2 Toxicity Data: This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product and is not presented in this document. 11.3 Acute Toxicity: Moderate irritation to eyes and skin near affected areas 11.4 Chronic Toxicity: This material may aggravate any pre-existing skin condition (e.g., dermatitis) 11.5 Suspected Carcinogen: 11.6 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 cause teratogenic effects in humans. Reproductive Toxicity: This product is not reported to cause reproductive effects in humans. 11.7 Irritancy of Product: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 11.8 Biological Exposure Indices: NE 11.9 Physician Recommendations: Treat symptomatically.

to overexposed aquatic life.			

There is no specific data available for this product.

There are no specific data available for this product.

12. ECOLOGICAL INFORMATION

There are no specific data available for this product; however, very large releases of this product may be harmful or fatal

	13. DISPOSAL CONSIDERATIONS					
13.1	Waste Disposal:	Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal regulations. Dispose of in accordance with federal, state and local regulations.				
13.2	Special Considerations:	NA NA				



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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					
14.1	riptive information may be 49 CFR (GND):	e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.				
14.1	IATA (AIR):	NOT REGULATED				
14.2	IMDG (OCN):	NOT REGULATED				
14.3	TDGR (Canadian GND):	NOT REGULATED				
14.4	,	NOT REGULATED				
14.5	ADR/RID (EU): SCT (MEXICO):	NOT REGULATED				
14.7	ADGR (AUS):	NOT REGULATED				
14.7	ADGIT (AOS).	NOT REGULATED				
		15. REGULATORY INFORMATION				
15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, section 313 reporting requirements.				
15.2	SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantities for the components of this product.				
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.				
15.4	CERCLA Reportable Quantity (RQ):	NA				
15.5	Other Federal Requirements:	This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR Subchapter G, (Cosmetics).				
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS 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:	No ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).				
15.8	Other Requirements:	The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC:  Irritant (Xi)  Risk Phrases: (R) 36 – Irritating to eyes. Safety Phrases: (S) 2-25-45 – Keep out of reach of children. Avoid contact with eyes. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).				
		16. OTHER INFORMATION				
16.1	Other Information:	WARNING! CAUSES EYE IRRITATION. Use only as directed. Keep out of reach of children. Avoid contact with eyes. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). If skin irritation occurs: get medical advice/attention. KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.				
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.				
16.3	Disclaimer:	This 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 is 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 Tel: +1 (800) CAIG-123 (244-4123) Fax: +1 (858) 486-8398 fax http://www.caig.com/				
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com  ShipMate  ShipMate  Dangerous Goods Training & Consulting				



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## **DEFINITION OF TERMS**

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

### **GENERAL INFORMATION:**

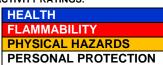
CAS No.	Chemical Abstract Service Number		
EXPOSURE LIMITS IN AIR:			
ACGIH	American Conference on Governmental Industrial Hygienists		
С	Ceiling Limit		
ES	Exposure Standard (Australia)		
IDLH	Immediately Dangerous to Life and Health		
OSHA	U.S. Occupational Safety and Health Administration		
PEL	Permissible Exposure Limit		
STEL	Short-Term Exposure Limit		
TLV	Threshold Limit Value		
TWA	Time Weighted Average		

### 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

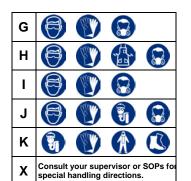
## HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



### PERSONAL PROTECTION RATINGS:

Α			
В			
С		THE STATE OF THE S	
D		THE STATE OF THE S	
E			
F			





Splash Gongles





Sunthesia Apr











Airline Hood/Mask or SCBA

## OTHER STANDARD ABBREVIATIONS:

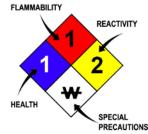
ML	Maximum Limit
mg/m3	milligrams per cubic meter
NA	Not Available
ND	Not Determined
NE	Not Established
NF	Not Found
NR	No Results
ppm	parts per million
SCBA	Self-Contained Breathing Apparatus

## NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:				
<u> </u>				
Autoignition				
Temperature	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:**

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
TREFOIL	Radioactive



### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
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 toxic effects
TC, TC <sub>o</sub> , LC <sub>lo</sub> , & LC <sub>o</sub>	
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
NOHSC	National Occupational Health and Safety Commission (Australia)
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)
WGK	Wassergefährdungsklassen (German Water Hazard Class)
HMIS-III	National Paint & Coatings Association Hazardous Materials Identification System

## WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	<b>(2)</b>	<b>(2)</b>		$\odot$	(4)		
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

## EC (67/548/EEC) INFORMATION:

	T.		M	*		<b>9</b>	X	X
Ī	С	E	F	N	0	Т	Xi	Xn
	Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

## CLP/GHS (1272/2008/EC) PICTOGRAMS:

			$\Diamond$			<b>\limits</b>		
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment