

Page 1 of 6

MSDS-E-S100L

Prep	bared to OSHA, ACC	, ANSI, WHMIS, NOHSC & 2001/58 EC Standards	MSDS Revision: 2	2.0 MSE	DS Revision Dat	e: 11/19/20	007
1.	PRODUCT IDE	NTIFICATION		CHEMICA	RESPONSE	CARD:	03
1.1	Product Name:	DeoxIT [®] SHIELD \$100L	RESPONSE				
1.2	Chemical Name:	See ingredients listed in section 3		TEAM PPE:			
1.3	Synonyms:	DeoxIT® SHIELD S100L					
1.4	Trade Names:	DeoxIT® SHIELD \$100L (see list below)		WHMIS:	(!)		
1.5	Product Use:	Protect & lubricate electronic contacts & cor	nectors	HEALTH:			0
1.6	Manufacturer's Name:	CAIG Laboratories, Inc.		FLAMMABIL	ITY:		0
1.7	Manufacturer's Address:	12200 Thatcher Court, Poway, CA 92064-6876		REACTIVITY	0		
1.8	Business Phone:	+1 (800)-224-4123			PROTECTION	l:	
1.9	Emergency Phone:	CHEMTREC +1 (703) 527-3887	/ +1 (800) 42	4-9300			
1.10	Other Product Names:DeoxIT® SHIELD \$100L, 2 ml (Part No. \$100L-2C, \$100L-2CP) DeoxIT® SHIELD \$100L, 7.4 ml (Part No. \$100L-2DB) DeoxIT® SHIELD \$100L, 12 ml (Part No. \$100L-12C) DeoxIT® SHIELD \$100L, 25 ml (Part No. \$100L-25C) DeoxIT® SHIELD PEN, 7 ml (Part No. D100P) DeoxIT® SHIELD WIPES, (Part Nos. D50W, K-D1W-25, K-D1W-50, D1W) DeoxIT® SHIELD \$100L, 59 ml (Part No. \$100L-2) DeoxIT® SHIELD \$100L, 236 ml (Part No. \$100L-8) DeoxIT® SHIELD \$100L, 472 ml (Part No. \$100L-16) DeoxIT® SHIELD \$100L, 30 L (Part No. \$100L-32) DeoxIT® SHIELD \$100L, 30 L (Part No. \$100L-32)						
		2. HAZARD IDEI	NTIFICATION				
2.1	Hazard Identification: This product is NOT classified as a HAZARDOUS SUBSTANCE or as DANGEROUS GOODS according to the classification criteria of [NOHSC: 1088 (1999)] and ADG Code (Australia). DeoxIT® SHIELD S100L is non-volatile, non-hazardous and non-flammable.						
2.2	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: YES				(ES	
2.3	Effects of Exposure: 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	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. 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.				pression.		
2.6	Chronic Health Effects: None reported by	the manufacturer.					
2.7	Target Organs:						
	Eyes and skin.						
NA	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.

http://www.techni-tool.com



Page 2 of 6

MSDS-E-S100L

Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 11/19/2007											
		2 COM	APOSITION								
							EXPO	SURE LIMI	TS IN AIR	(mg/m³)	
						AC	GIH		OSHA		OTHER
					%	TLV	STEL	PEL	STEL	IDLH	
	CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.		ppm	ppm	ppm	ppm	ppm	
Deox	T® SHIELD S100L	Trade Secret	UNK	UNK	100	NE	NE	NE	NE	NE	
(form	formerly PreservIT) NE NE NE NE NE										
								•			
			4. FI	RST AID M	EASU	RES					
4.1	First Aid:										_
		eyes thoroughly lete flushing. If i						utes, hold	ing eyelio	d(s) open	to ensure
	=	ve contaminate	=					ater If i	ritation n	orsists so	ek prompt
		al attention. Do									ek pioliipi
		t induce vomitir			-						
	INHALATION: Remo	ve victim to free	sh air at once.	If breathing	is difficu	ult, admini	ster supp	lemental	oxygen c	and seek i	mmediate
	medi	al attention. If	breathing stop	s, perform arti	ficial res	piration.					
4.2	Medical Conditions Aggravated	by Exposure:					HEA	ITH			0
	None reported by the m	anufacturer.									
							FLA	MMAB	ILIIY		0
	REACTIVITY 0										
	PROTECTIVE EQUIPMENT A					ТΔ					
							EYES				
			5 FIRE	FIGHTING	MFA	SIIRES					
5.1	Flashpoint & Method:		J . TIKE			JUKEJ					
0.1	> 250 °C (482 °F)										
5.2	Autoignition Temperature:										
	NA					_					
5.3	Flammability Limits:		Lower Explo	sive Limit (LEL):		ND	Uppe	r Explosive	e Limit (UE	L):	ND
5.4	Fire & Explosion Hazards:										
	Carbon dioxide, carbon	monoxide, hyd	rocarbons.								
5.5	Extinguishing Methods:	O le a ser la sel 144 a da									
5.6	CO ₂ , Alcohol foam, Dry Firefighting Procedures:	unemical, wate	rrog								
5.0	Wear NIOSH/MSHA app	oved self-contr	ined breathin	a apparatus a	nd prote	ective clot	hina lls	e a water		0 X	0)
	spray to cool containe									\checkmark	$\mathbf{\mathbf{V}}$
	exposed to direct flame	contact should	l be cooled w	ith large quan	tities of	water as r	needed to	o prevent		X	/
	weakening of container										51
	Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any										
	natural waterway.								<u> </u>		
		٨	ACCIDE			MEASU	RES				
6.1	Spills:	0.									
0.1	Ventilate if in enclosed	area. Secure so	ill area. remo	ve or minimize	all sou	rces of ian	ition. and	d maximiz	e ventilat	tion. Wipe	and rinse
	with water. Deny entry to all unprotected individuals. Individuals involved in the cleanup must wear appropriate personal protective equipment.										





Page 4 of 6

MSDS-E-S100L

	Dared to USHA, ACC, ANSI, M	VHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 11/19/2007						
		11. TOXICOLOGICAL INFORMATION						
1.1	Toxicity Data:	This product has not been tested on animals to obtain toxicological data. There are toxicology of for the components of this product, which are found in the scientific literature. These data have been presented in this document.						
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 produce embryotoxic effects in humans.						
	Teratogenicity:	This product is not reported to produce teratogenic effects in humans.						
1 /	Reproductive Toxicity:	This product is not reported to produce reproductive effects in humans.						
1.6	Irritancy of Product:	See Section 3.3						
1.7	Biological Exposure Indices:	NE						
1.8	Physician Recommendations:	Treat symptomatically.						
		12. ECOLOGICAL INFORMATION						
2.1	Environmental Stability:	This product will slowly volatile from soil. Components of this product will slowly decompose organic compounds.						
2.2	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 overexposed aqu life.						
3.2	Special Considerations:							
	NA							
	NA	14. TRANSPORTATION INFORMATION						
	basic description (ID Numbe	er, proper shipping name, hazard class & division, packing group) is shown for each mode of transporta						
٩dd	basic description (ID Numbe itional descriptive informatio 49 CFR (GND):							
Add 4.1	basic description (ID Numbe itional descriptive informatio 49 CFR (GND): NOT REGULATED	er, proper shipping name, hazard class & division, packing group) is shown for each mode of transporta						
Add 4.1	basic description (ID Numbe itional descriptive informatio 49 CFR (GND): NOT REGULATED IATA (AIR):	er, proper shipping name, hazard class & division, packing group) is shown for each mode of transporta						
Add 4.1 4.2	basic description (ID Numbe itional descriptive informatio 49 CFR (GND): NOT REGULATED IATA (AIR): NOT REGULATED	er, proper shipping name, hazard class & division, packing group) is shown for each mode of transporta						
Add 4.1 4.2	basic description (ID Numbe itional descriptive informatio 49 CFR (GND): NOT REGULATED IATA (AIR):	er, proper shipping name, hazard class & division, packing group) is shown for each mode of transporta						
4.1 4.2 4.3	basic description (ID Numbe itional descriptive informatio 49 CFR (GND): NOT REGULATED IATA (AIR): NOT REGULATED IMDG (OCN): NOT REGULATED TDGR (Canadian GND):	er, proper shipping name, hazard class & division, packing group) is shown for each mode of transporta						
4.1 4.2 4.3 4.4	basic description (ID Numbe itional descriptive informatio 49 CFR (GND): NOT REGULATED IATA (AIR): NOT REGULATED IMDG (OCN): NOT REGULATED	er, proper shipping name, hazard class & division, packing group) is shown for each mode of transporta						
4.1 4.2 4.3 4.4	basic description (ID Numbe itional descriptive informatio 49 CFR (GND): NOT REGULATED IATA (AIR): NOT REGULATED IMDG (OCN): NOT REGULATED TDGR (Canadian GND): NOT REGULATED	er, proper shipping name, hazard class & division, packing group) is shown for each mode of transporta						
4.1 4.2 4.3 4.4	basic description (ID Numbe itional descriptive informatio 49 CFR (GND): NOT REGULATED IATA (AIR): NOT REGULATED IMDG (OCN): NOT REGULATED TDGR (Canadian GND): NOT REGULATED ADR/RID (EU):	er, proper shipping name, hazard class & division, packing group) is shown for each mode of transporta on may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.						
Add 4.1 4.2 4.3 4.4 4.5	basic description (ID Numbe itional descriptive informatio 49 CFR (GND): NOT REGULATED IATA (AIR): NOT REGULATED IMDG (OCN): NOT REGULATED TDGR (Canadian GND): NOT REGULATED ADR/RID (EU): NOT REGULATED	er, proper shipping name, hazard class & division, packing group) is shown for each mode of transporta						
Add 4.1 4.2 4.3 4.4 4.5 5.1	basic description (ID Numbe itional descriptive informatio 49 CFR (GND): NOT REGULATED IATA (AIR): NOT REGULATED IMDG (OCN): NOT REGULATED TDGR (Canadian GND): NOT REGULATED ADR/RID (EU): NOT REGULATED SARA Reporting Requirements: NA	er, proper shipping name, hazard class & division, packing group) is shown for each mode of transporta on may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.						
Add 4.1 4.2 4.3 4.4 4.5 5.1	basic description (ID Numbe itional descriptive informatio 49 CFR (GND): NOT REGULATED IATA (AIR): NOT REGULATED IMDG (OCN): NOT REGULATED TDGR (Canadian GND): NOT REGULATED ADR/RID (EU): NOT REGULATED	er, proper shipping name, hazard class & division, packing group) is shown for each mode of transporta on may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.						
	basic description (ID Numbe itional descriptive informatio 49 CFR (GND): NOT REGULATED IATA (AIR): NOT REGULATED IMDG (OCN): NOT REGULATED TDGR (Canadian GND): NOT REGULATED ADR/RID (EU): NOT REGULATED SARA Reporting Requirements: NA SARA Threshold Planning Quantity: NA TSCA Inventory Status:	tr, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.						
Add 4.1 4.2 4.3 4.4 4.5 5.1 5.2	basic description (ID Numbe itional descriptive informatio 49 CFR (GND): NOT REGULATED IATA (AIR): NOT REGULATED IMDG (OCN): NOT REGULATED TDGR (Canadian GND): NOT REGULATED ADR/RID (EU): NOT REGULATED SARA Reporting Requirements: NA SARA Threshold Planning Quantity: NA TSCA Inventory Status:	er, proper shipping name, hazard class & division, packing group) is shown for each mode of transporta on may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.						
Add 4.1 4.2 4.3 4.4 4.5 5.1 5.2 5.3	basic description (ID Numbe itional descriptive informatio 49 CFR (GND): NOT REGULATED IATA (AIR): NOT REGULATED IMDG (OCN): NOT REGULATED TDGR (Canadian GND): NOT REGULATED ADR/RID (EU): NOT REGULATED SARA Reporting Requirements: NA SARA Threshold Planning Quantity: NA TSCA Inventory Status: All chemical substances of	er, proper shipping name, hazard class & division, packing group) is shown for each mode of transporta on may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.						
Add 4.1 4.2 4.3 4.4 4.5 5.1 5.2 5.3	basic description (ID Numbe itional descriptive informatio 49 CFR (GND): NOT REGULATED IATA (AIR): NOT REGULATED IMDG (OCN): NOT REGULATED TDGR (Canadian GND): NOT REGULATED ADR/RID (EU): NOT REGULATED SARA Reporting Requirements: NA SARA Threshold Planning Quantity: NA TSCA Inventory Status: All chemical substances of CERCLA Reportable Quantity (RQ):	er, proper shipping name, hazard class & division, packing group) is shown for each mode of transporta on may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.						



Page 5 of 6 **MSDS-E-S100L**

Prep	repared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58	EC Standards	MSDS Revision: 2.0	MSDS Revision Date: 11/19/2007	
	15. REGULATO		MATION- continued		
15.6					
	This product has been classified according to the h (CPR) and the MSDS contains all of the information r are listed on the DSL/NDSL. None of the comp Substances List.	equired by the	CPR. The components of this	product ()	
15.7	.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	 .8 67/548/EEC (European Union) Requirements: The primary component of this product is not listed in the primary component of this product is not listed in the primary component of the primary com	n Annex I of EU	Directive 67/548/EEC.	×	
	14	OTHER INFO			
16.1			DRMAIION		
10.1	NA				
16.2					
	See page last page of this MSDS.				
16.3	.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	A 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/	BAIG ABORATORIES, INC.			
16.5	.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/	Dangerous Goods Training & Consulting			



Page 6 of 6

MSDS-E-S100L

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

MSDS Revision: 2.0

MSDS Revision Date: 11/19/2007

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 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.

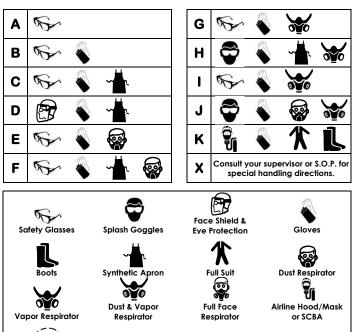
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:



Note: the dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.

OTHER STANDARD ABBREVIATIONS:

NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

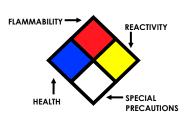
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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:

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
OX	Oxidizer



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the
	exposed animals s
LC ₅₀	
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	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:

		×	*	<u></u>	.	×	×
С	E	F	Ν	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful