

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

SAFETY DATA SHEET

MSDS Revision: 3.0

Page 1 of 6 MSDS-E-S100L

MSDS Revision Date: 08/22/2012

1. PRODUCT IDENTIFICATION Product Name: 1.1 DeoxIT[®] Shield S-SERIES (P/N S100L) 12 Chemical Name See ingredients listed in section 3 1.3 Synonyms: **DeoxIT® Shield S100L** 1.4 Trade Names DeoxIT[®] Shield S100L (see list below) 1.5 Product Use: Lubricant and Protectant for electronic contacts & connectors 1.6 Manufacturer's Name CAIG Laboratories, Inc. 1.7 Manufacturer's Address: 12200 Thatcher Court, Poway, CA 92064-6876 USA Emergency Phone: 1.8 CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-3887 1.9 Business Phone: +1 (800)-224-4123 1.10 Other Product Names: DeoxIT® Shield S100L, 2 ml (Part No. S100L-2C, S100L-2CP); DeoxIT® Shield S100L, 2.3 ml (Part No. S100L-58D); DeoxIT® Shield S100L, 7.4 ml (Part No. S100L-2DB); DeoxIT® Shield S100L, 12 ml (Part No. S100L-12C); DeoxIT® Shield S100L, 25 ml (Part No. S100L-25C); DeoxIT® Shield \$100L, 59 ml (Part No. \$100L-2); DeoxIT® Shield \$100L, 236 ml (Part No. \$100L-8); DeoxIT® Shield \$100L, 354 ml (Part No. \$100L-12); DeoxIT® Shield \$100L, 472 ml (Part No. \$100L-16); DeoxIT® Shield \$100L, 944 ml (Part No. \$100L-32); DeoxIT® Shield \$100L, 30 L (Part No. \$100L-8G) 2. HAZARD IDENTIFICATION Hazard Identification: 2.1 This product is classified as a HAZARDOUS SUBSTANCE but not as DANGEROUS GOODS according to the classification criteria of NOHSC: 1008(2004) and ADG Code (Australia). DeoxIT® S100L is non-volatile, nonhazardous and non-flammable. WARNING! Causes eye irritation. Hazard Statements (H): H320 - Causes eye irritation. Precautionary Statements (P): P280 - Wear protective eyewear. P302 + P352 - IF ON SKIN - Wash with plenty of soap and water. P312 - Call a Poison Control Center or doctor/physician if you feel unwell. P333 + P313 - If skin irritation or rash occurs, get medical advise/attention. P321 – Refer to section 4 of this Safety Data Sheet (First Aid). P305+P351+P338 - IF IN EYES - Rinse continuously 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. 2.2 Routes of Entry: Inhalation: YES Absorption: YES Ingestion: YES 2.3 Effects of Exposure: EYES: 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. Symptoms of Overexposure: 2.4 EYES: 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: None reported when used as directed. Mild to moderate transient (temporary) irritation. EYES: 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. 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 Z400.1-2010 format.



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2.6	Chronic Health Effects: None reported by the mai						//////	Jeaj						
2.7	Target Organs:	iolaciorei.												
2.7	Eyes													
		3 00		ON & ING										
		<u> </u>					FUK			LIMITS		(ma/r	m 3)	
						AC	CIH		NOHSC			OSHA		
	ppm ppm ppm OTHER													
								ES-	ES-	ES-				
	AICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	
Deox	(IT® Shield, S-Series, S100L	Trade Secret			100.0	NE	NE	NF	NF	NF	NE	NE	NE	
			4.	FIRST AID	MEAS	URES								
4.1	First Aid:						, 							
				s amounts of w			15 miı	nutes, l	holding	g eyeli	d(s) op	oen to	ensur	e complete
	-	=		mmediate mea										
				and wash affe								n persi	sts, se	ek prompt
				ontaminated cl hty of water. If	-					-	ineu.			
			-	ce. If breathi		-		-	-			n and	sook	immediate
				ps, perform ar				5101 30	ppiem	entar	, yge		JUER	innealaic
4.2	Medical Conditions Aggravated b							HEA	LTH					0
	None reported by the mai	nutacturer.						FLA	۸MA	BILIT	Y			0
								PHY	SICA		ZAR	DS		0
							Γ	PRO	TECT	IVE E	QUI	PME	NT	Α
								EYES	<u> </u>					
	I		5. FI	REFIGHTIN	IG ME	ASUR	ES							
5.1	Flashpoint & Method: > 250 °C (482 °F)													
5.2	Autoignition Temperature:													
0.2	NA													
5.3	Flammability Limits:		Lower Expl	osive Limit (LEL):	ND		Upper	Explos	sive Lim	nit (UEL	.):	N	ID
5.4	Fire & Explosion Hazards:		•	x										
	Carbon dioxide, carbon n	nonoxide, hyd	rocarbons.											
5.5	Extinguishing Methods:													
	CO ₂ , Alcohol foam, Dry Cl	nemical, Wate	r Fog									_		
5.6	Firefighting Procedures:						- 1 - 11- 1-							O
	Wear NIOSH/MSHA appro cool containers involved i													Y
	contact should be cooled													\checkmark
	Keep containers cool unt	il well after the	e fire is out t	o prevent ruptu	ure. Prev	vent rur								
	from entering sewers drai	ns drinking wa	ater supply o	r any natural v	vaterway	/						1		



6.1

Spills:

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6. ACCIDENTAL RELEASE MEASURES

Ventilate if in enclosed area. Secure spill area, remove or minimize all sources of ignition, and maximize ventilation. Wipe and rinse with water. Deny entry to all unprotected individuals. Individuals involved in the cleanup must wear appropriate personal protective equipment.

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.

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	Eye Protection:
	Wear safety glasses with side shields (ANSI Z87) under normal use conditions.
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 skin contact.

0.1	Densiti	9. PHYSICAL & CHEMICAL 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 blue
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 use (see section 7).
10.2	Hazardous Decomposition Products:
	Change in color signifies exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Discard solution.
10.3	Hazardous Polymerization:
	Will not occur.
10.4	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.
10.5	Incompatible Substances:
	Strong oxidizers.



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11.1	Toxicity Data:		1. TOXICOL					
	This product has not bee	This product has not been tested on animals to obtain toxicological data. There are toxicology data for the components of this product, which are found in the scientific literature. These data have not been presented in this document.						
11.2	Acute Toxicity: See section 3.5							
11.3								
11.5	See section 3.6							
11.4	Suspected Carcinogen:							
	No							
11.5	Reproductive Toxicity:	This prod	uct is not reported	to produce re	productive f	toxicity in hum	nans.	
	Mutagenicity:	This prod	uct is not reported	to produce m	nutagenic eff	fects in humar	ıs.	
	Embryotoxicity:		uct is not reported					
	Teratogenicity:		uct is not reported					
	Reproductive Toxicity:		uct is not reported					
11.6	Irritancy of Product:			•	•			
	See Section 3.3							
11.7	Biological Exposure Indices:							
11.0	NA Discrizione De constructiones							
11.8	Physician Recommendations: Treat symptomatically.							
	inear symptomatically.							
			12. ECOLO	GICAL IN	FORMAT	ION		
	Environmental Stability:							
12.1	Entriorina anability.							
	This product will slowly vo	latile from soil.	Components of th	nis product will	slowly deco	mpose into or	ganic compo	unds.
12.1 12.2	This product will slowly vo Effects on Plants & Animals:			nis product will	slowly deco	mpose into or	ganic compo	unds.
12.2	This product will slowly vo Effects on Plants & Animals: There is no specific data of			nis product will	slowly deco	mpose into or	ganic compo	unds.
	This product will slowly vo Effects on Plants & Animals: There is no specific data of Effects on Aquatic Life:	available for thi	s product.					unds.
12.2	This product will slowly vo Effects on Plants & Animals: There is no specific data of	available for thi	s product.					unds.
12.2	This product will slowly vo Effects on Plants & Animals: There is no specific data of Effects on Aquatic Life:	available for thi	s product. t are expected to	be harmful or t	fatal to overe	exposed aqua		unds.
12.2	This product will slowly vo Effects on Plants & Animals: There is no specific data of Effects on Aquatic Life: Releases of large volumes	available for thi	s product.	be harmful or t	fatal to overe	exposed aqua		unds.
12.2	This product will slowly vo Effects on Plants & Animals: There is no specific data of Effects on Aquatic Life: Releases of large volumes Waste Disposal:	available for thi s of this produc	s product. t are expected to 13. DISPOS	be harmful or SAL CONS	fatal to overe	exposed aqua		unds.
12.2 12.3 13.1	This product will slowly vo Effects on Plants & Animals: There is no specific data of Effects on Aquatic Life: Releases of large volumes Waste Disposal: Dispose of in accordance	available for thi s of this produc	s product. t are expected to 13. DISPOS	be harmful or SAL CONS	fatal to overe	exposed aqua		unds.
12.2	This product will slowly vo Effects on Plants & Animals: There is no specific data of Effects on Aquatic Life: Releases of large volumes Waste Disposal: Dispose of in accordance Special Considerations:	available for thi s of this produc	s product. t are expected to 13. DISPOS	be harmful or SAL CONS	fatal to overe	exposed aqua		unds.
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12.2 12.3 13.1 13.2 The	This product will slowly vo Effects on Plants & Animals: There is no specific data of Effects on Aquatic Life: Releases of large volumes Waste Disposal: Dispose of in accordance Special Considerations: NA basic description (ID Numb	available for thi s of this produc e with federal, s e with gederal, s a proper ship	s product. t are expected to 13. DISPOS tate or local regula 4. TRANSPO oping name, hazo	be harmful or SAL CONS ations. PRTATION	fatal to overe IDERATIC	exposed aqua	itic life.	
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12.2 12.3 13.1 13.2 The Add 14.1 14.2 14.3 14.4 14.5	This product will slowly vo Effects on Plants & Animals: There is no specific data of Effects on Aquatic Life: Releases of large volumes Waste Disposal: Dispose of in accordance Special Considerations: NA basic description (ID Numk itional descriptive informatic 49 CFR (GND): NOT REGULATED IATA (AIR): NOT REGULATED IMDG (OCN): NOT REGULATED IMDG (CON): NOT REGULATED IDGR (Canadian GND): NOT REGULATED ADR/RID (EU): NOT REGULATED	available for thi s of this produc e with federal, s e with gederal, s a proper ship	s product. t are expected to 13. DISPOS tate or local regula 4. TRANSPO oping name, hazo	be harmful or SAL CONS ations. PRTATION	fatal to overe IDERATIC	exposed aqua	itic life.	
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		15. REGULATORY IN	FORMATION		
15.1	SARA Reporting Requirements:				
15.2	SARA Threshold Planning Quantity:				
15.3	TSCA Inventory Status: All chemical substances of this product of	are listed on the TSCA inventory of	or are otherwise exemr	ot from inventory stat	US.
15.4	CERCLA Reportable Quantity (RQ):				
15.5	Other Federal Requirements:				
15.6	Other Canadian Regulations				
	This product has been classified according the MSDS contains all of the information DSL/NDSL. None of the components of	required by the CPR. The com	ponents of this produc		
15.7	State Regulatory Information: The primary component of this product Right to Know List of Chemicals; New Jer A; Wisconsin Hazardous Substances List	is not listed on the following sta rsey Right to Know List 8:59 Appe	te lists: California OSHA andix A; Pennsylvania H	lazardous Substance	es List 34 323 Appendix
15.8	67/548/EEC (European Union) Requirements: The primary component of this product is DeoxIT® \$100L is non-volatile, non-hazard	dous and non-flammable. WARM		ition.	
	<u>Hazard Statements</u> (H): H320 – Causes e <u>Precautionary Statements</u> (P): P280 – W soap and water. P312 – Call a Poison C irritation or rash occurs, get medical ac Aid). P305+P351+P338 – IF IN EYES - Rins present and easy to do – continue rinsing	ear protective eyewear. P302 + ontrol Center or doctor/physicic dvise/attention. P321 – Refer to se continuously with water for se	n if you feel unwell. P: section 4 of this Safet everal minutes. Remove	333 + P313 – If skin y Data Sheet (First e contact lenses if	
		16. OTHER INFOR/	NATION		
16.1	Other Information:				
16.2	Terms & Definitions:				
	See page last page of this MSDS.				
16.3	Disclaimer: This Material Safety Data Sheet is offere regulations must be reviewed for appli- information contained herein is reliable and no warranties of any type, either ex- product(s). If this product(s) is combined time to time. Be sure to consult the latest	cability to this product. To the and accurate as of this date; ho xpressed or implied, are provide d with other materials, all compo	 best of ShipMate's & wever, accuracy, suita ed. The information co 	CAIG Laboratories, ability or completene ontained herein rela	Inc.'s knowledge, the ess are not guaranteed tes only to the specific
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/	CAIGE LABORATORIES, INC.			
16.5	Prepared by: ShipMate, Inc. P.O. Box 787 780 Buckaroo Trail Suite D Sisters, OR 97759 Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	ShipMate Dangerous Goods Training & Consulting			



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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:

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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	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTION
4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:

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F		🔍 📥 🚱	x	Consult ye special he			
	S	Ş	Fac	e Shield &		(m)	
Sc	afety Glasses	Splash Goggles		Protection		Glove	es
	Boots	Synthetic Apron		Full Suit		Dust Resp	pirator
Full F	ace Respirate	Dust & Vapor Half- or Mask Respirator		ull Face espirator	Ai	rline Hoo or SCE	
	$\langle \cdot \rangle$	Note: the dotted circ	le indic:	ates that tl	his respi	ratory pro	otective

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:

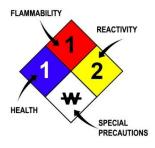
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILIT	FLAMMABILITY LIMITS IN AIR:					
Autoignition	Minimum temperature required to initiate combustion in air with no					
Temperature	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		
₩	Use No Water		
OX	Oxidizer		
TREFOIL	Radioactive		



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed			
	animals s			
10				
LC 50	Lethal concentration (gases) which kills 50% of the exposed			
	animal			
ppm	Concentration expressed in parts of material per million parts			
TD _{Io}	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 toxic			
TC, TC _o , LC _{io} , & LC _o	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)			
WGK	Wassergefährdungsklassen (German Water Hazard Class)			

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

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Α	В	С	D1	D2	D3	E	F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

		*	¥			×	×
С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

