

Page 1 of 6

MSDS-E-F100L

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

MSDS Revision: 3.0

MSDS Revision Date: 08/22/2012

1. PRODUCT IDENTIFICATION

1.1 Product Name:

DeoxIT® Fader F-SERIES (P/N F100L)

1.2 Chemical Name:

See ingredients listed in section 3

1.3 Synonyms:

1.5

DeoxIT® Fader F100L-L, DeoxIT® Fader F100L-H

1.4 Trade Names:

DeoxIT® Fader F100L (see list below)

Product Use

Lubricant for conductive plastics & carbon-based controls

1.6 Manufacturer's Name

CAIG Laboratories, Inc.

1.7 Manufacturer's Address:

12200 Thatcher Court, Poway, CA 92064-6876 USA

1.8 Emergency Phone:

CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-3887

1.9 Business Phone:

+1 (800)-224-4123

1.10 Other Product Names:

DeoxIT® Fader F100L, 2 ml (Part No. F100L-2C, F100L-2CP); DeoxIT® Fader F100L, 2.3 ml (Part No. F100L-58D); DeoxIT® Fader F100L, 7.4 ml (Part No. F100L-2DB); DeoxIT® Fader F100L, 12 ml (Part No. F100L-12C); DeoxIT® Fader F100L, 25 ml (Part No. F100L-25C); DeoxIT® Fader F100L, 59 ml (Part No. F100L-2); DeoxIT® Fader F100L, 236 ml (Part No. F100L-8); DeoxIT® Fader F100L, 354 ml (Part No. F100L-12); DeoxIT® Fader F100L, 472 ml (Part No. F100L-16); DeoxIT® Fader F100L, 944 ml (Part No. F100L-32); DeoxIT® Fader F100L, 30 L (Part No. F100L-8G)

2. HAZARD IDENTIFICATION

2.1 Hazard Identification:

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® F100L is non-volatile, non-hazardous and non-flammable. WARNING! Causes eye irritation.

Hazard Statements (H): H320 - Causes eye irritation.

<u>Precautionary Statements</u> (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.

2.4 Symptoms of Overexposure:

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:

EYES: None reported when used as directed. Mild to moderate transient (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.

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.



CAIG SAFETY DATA SHEET

Page 2 of 6

MSDS-E-F100L

	LABORATORIES, INC.	<u> </u>												
Prep	ared to OSHA, ACC, ANSI, NC	OHSC, WHMIS, 2001,	/58/EC & 1272/	/2008/EC Standa	rds N	ISDS Rev	ision: 3.0	0	MSD	S Revisio	on Date	: 08/22	/2012	
		2.	HAZARD	IDENTIFIC	CATIO	N (co	ntin	ued)						
2.6	Chronic Health Effects: None reported by the m	anufacturer.												
2.7	Target Organs: Eyes													
														,
		3. CO	MPOSITI	ON & ING	REDIE	NT IN	FOR/	MAT	ION					
								EXP	OSURE	LIMITS	IN AIR	(mg/ı	n³)	
						AC	GIH		NOHSO			OSHA		
						pp	m		ppm			ppm	1	OTHER
								ES-	ES-	ES-				
	MICAL NAME(S)		RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	
реох	kIT® Fader, F100L	Trade Secret			100.0	NE	NE	NF	NF	NF	NE	NE	NE	
			4.	FIRST AID	MEAS	URES								
4.1	First Aid:													
		eyes thoroughly					15 mir	iutes, l	holding	g eyeli	d(s) op	en to	ensure	complete
		ng. If irritation pe					_	_						
		ove contaminate cal attention. Do										persi	sts, se	ek prompt
		ot induce vomitin			•					•	illeu.			
		ove victim to fre	•	•		•		•	-		vvaei	n and	sook	immediate
		cal attention. If b			-			101 30	ppieiii	emai (,, gei	ı unu	JCCK	iiiiiicaiaic
4.2	Medical Conditions Aggravated	d by Exposure:						ЦΕΛ	ITU					^
	None reported by the m	anufacturer.						HEA						0
								FLA <i>l</i>	MMA	BILIT	Y			0
								PHY	SICA	LHA	ZAR	DS		0
							ſ	PRO	TECT	IVE I	QUI	PME	NT	Α
								EYES						
									· ·		l .		- U	
			5. FI	REFIGHTIN	G ME	<u> ASUR</u>	ES							
5.1	Flashpoint & Method:													
	> 250 °C (482 °F)													
5.2	Autoignition Temperature:													
5.3	NA Flammability Limits:		Lower Evol	osive Limit (LEL)	١٠	ND		Unnor	Evolor	sive Lim	si+ / ⊏	١.	N	
5.4	Fire & Explosion Hazards:		Lower Expir	DSIVE LITTII (LEL))•	ND		oppei	EXPIO	SIVE LIII	III (UEL)· 	N	<u>U</u>
0	Carbon dioxide, carbon	monoxide, hydr	ocarbons.											
5.5	Extinguishing Methods:	, , ,												
	CO ₂ , Alcohol foam, Dry	Chemical, Water	Fog											
5.6	Firefighting Procedures:												0	0
	Wear NIOSH/MSHA app			•	-			_			•			
	cool containers involved													
	contact should be cool Keep containers cool u													
	from entering sewers, dr								3011110	J. UI				
			-	-										



Page 3 of 6

MSDS-E-F100L

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MSDS Revision: 3.0

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6. ACCIDENTAL RELEASE MEASURES

6.1 Spills:

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.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	0.72
9.2	Boiling Point:	> 200 °C (392 °F)
9.3	Melting Point:	NA NA
9.4	Evaporation Rate:	NA NA
9.5	Vapor Pressure:	< 0.01 mm Hg @ 20 °C (68 °F)
9.6	Molecular Weight:	NA NA
9.7	Appearance & Color:	Light amber
9.8	Odor Threshold:	Ethereal/hydrocarbon odor
9.9	Solubility:	Not soluble in water
9.10	Ph	NA NA
9.11	Viscosity:	5.1 – 7.0 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.



Page 4 of 6

MSDS-E-F100L

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MSDS Revision Date: 08/22/2012

		11 TOVICOLOCICAL INFORMATION				
11.1	Toxicity Data:	11. TOXICOLOGICAL INFORMATION				
	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:					
11.3	See section 3.5 Chronic Toxicity:					
	See section 3.6					
11.4	Suspected Carcinogen:					
11.5	No Reproductive Toxicity:	This wood not is not considered to many disconvention begins by in homeons				
11.0	Mutagenicity:	This product is not reported to produce reproductive toxicity in humans. 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 terratogenic effects in humans.				
	Reproductive Toxicity:	This product is not reported to produce reproductive effects in humans.				
11.6	Irritancy of Product:	,				
	See Section 3.3					
11.7	Biological Exposure Indices: NA					
11.8	Physician Recommendations:					
	Treat symptomatically.					
		12. ECOLOGICAL INFORMATION				
12.1	Environmental Stability:	12. ECOLOGICAL INI ORMANON				
12.1	· · · · · · · · · · · · · · · · · · ·	olatile from soil. Components of this product will slowly decompose into organic compounds.				
	Effects on Plants & Animals:					
12.2	Ettects on Plants & Animals:					
	There is no specific date	available for this product.				
12.2	There is no specific data Effects on Aquatic Life:	•				
	There is no specific data Effects on Aquatic Life:	available for this product. es of this product are expected to be harmful or fatal to overexposed aquatic life.				
	There is no specific data Effects on Aquatic Life:	es of this product are expected to be harmful or fatal to overexposed aquatic life.				
	There is no specific data Effects on Aquatic Life:	•				
	There is no specific date Effects on Aquatic Life: Releases of large volum Waste Disposal:	es of this product are expected to be harmful or fatal to overexposed aquatic life. 13. DISPOSAL CONSIDERATIONS				
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12.3 13.1 13.2 The	There is no specific date Effects on Aquatic Life: Releases of large volum Waste Disposal: Dispose of in accordant Special Considerations: NA Dasic description (ID Nurtional descriptive informat 49 CFR (GND):	13. DISPOSAL CONSIDERATIONS e with federal, state or local regulations. 14. TRANSPORTATION INFORMATION				
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Page 5 of 6

MSDS-E-F100L

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MSDS Revision: 3.0

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	15. REGULATORY INFORMATION						
15.1							
	NA .						
15.2	SARA Threshold Planning Quantity:						
15.2	NA TSCA Investory Status						
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						
15.5	Other Federal Requirements:						
	NA						
15.6	Other Canadian Regulations 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:						
	Right to Know List of Chemicals; New Je A; Wisconsin Hazardous Substances List	is not listed on the following state lists: California OSHA; California Proposition 65; Massachusetts rsey Right to Know List 8:59 Appendix A; Pennsylvania Hazardous Substances List 34 323 Appendix NR 605.09; Minnesota Hazardous Substances List; and Florida Toxic Substances List.					
15.8	67/548/EEC (European Union) Requirements:						
		s not listed in Annex I of EU Directive 67/548/EEC.					
		dous and non-flammable. WARNING! Causes eye irritation.					
	Hazard Statements (H): H320 - Causes e	lear protective eyewear. P302 + P352 – IF ON SKIN – Wash with plenty of					
		Control Center or doctor/physician if you feel unwell. P333 + P313 – If skin					
		dvise/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 rinsin	g. P337 + P313 – If eye irritation persists, get medical advice/attention.					
		16. OTHER INFORMATION					
16.1	Other Information:						
	NA						
16.2	Terms & Definitions: See page last page of this MSDS.						
16.3	Disclaimer:						
10.5		ed pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government					
	•	icability to this product. To the best of ShipMate's & CAIG Laboratories, Inc.'s knowledge, the					
		and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed					
		xpressed 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						
1/ 4	time to time. Be sure to consult the lates	it 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	CABONATORIES, INC.					
16.5	http://www.caig.com/ Prepared by:						
10.5	ShipMate, Inc.						
	P.O. Box 787						
	780 Buckaroo Trail Suite D	ShipMate					
	Sisters, OR 97759	Dancerous Goods					
	Tel: +1 (310) 370-3600	Training & Consulting					
	Fax: +1 (310) 370-5700						
	http://www.shipmate.com						



Page 6 of 6

MSDS-E-F100L

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MSDS Revision Date: 08/22/2012

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 U.S. Occupational Safety and Health Administration		
PEL Permissible Exposure Limit		
IDIH 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.			

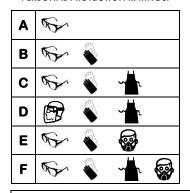
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

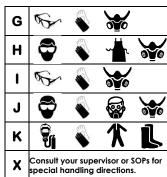
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:







OTHER STANDARD ABBREVIATIONS:

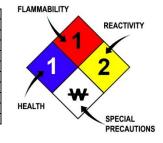
NA	Not Available	
NR	No Results	
NE	NE Not Established	
ND	ND Not Determined	
ML	ML Maximum Limit	
SCBA	Self-Contained Breathing Apparatus	

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:				
Autoignition	Minimum temperature required to initiate combustion in air with no			
Temperature	re other source of ignition			
LEL	LEL Lower Explosive Limit - lowest percent of vapor in air, by volume, tha			
	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:

1 Slight Hazard 2 Moderate Hazard 3 Severe Hazard 4 Extreme Hazard ACD Acidic ALK Alkaline COR Corrosive	0	Minimal Hazard
3 Severe Hazard 4 Extreme Hazard ACD Acidic ALK Alkaline	1	Slight Hazard
4 Extreme Hazard ACD Acidic ALK Alkaline	2	Moderate Hazard
ACD Acidic ALK Alkaline	3	Severe Hazard
ALK Alkaline	4	Extreme Hazard
	ACD	Acidic
COR Corrosive	ALK	Alkaline
	COR	Corrosive
₩ Use No Water	₩	Use No Water
OX Oxidizer	ОХ	Oxidizer
TREFOIL Radioactive	TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s
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, TCo, LCio, & LCo	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	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	WGK Wassergefährdungsklassen (German Water Hazard Class)						

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

			(8)		(Ţ)	®		R
ĺ	Α	В	С	D1	D2	D3	E	F
	Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

		S. C.	*			×	×
C	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

			\Diamond			$\langle \cdot \rangle$		***
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment