

Page 1 of 7

Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 1.2 MSDS Revision Date: 01/29/2011										
1. PRODUCT IDENTIFICATION CHEMICAL RESPONSE CARD: 21										
1.1	Product Name:	DeoxIT [®] FLUX WASH, DFW-V710, 7	10 oz.		RESPO	ONSE		m		
1.2	Chemical Name:	See ingredients listed in section 3			TEAM		$\mathbf{\nabla}$			
1.3	Synonyms:	NA						6		
1.4	Trade Names:	Flux Wash			WHW	IS:	$\langle \rangle$		(\underline{T})	
1.5	Product Use:	Aerosol Electronics Flux Cleaner			HEAL	TH:	\smile	$\overline{}$		1
1.6	Manufacturer's Name:	CAIG Laboratories, Inc.				MABI	.ITY:			3
1.7	Manufacturer's Address:	12200 Thatcher Court, Poway, CA 92064	-6876		PHYS		AZARD	S:		0
1.8	Business Phone:	+1 (800) 224-4123			PERSO	ONAL	PROTEC	TION:		В
1.9	Emergency Phone:	CHEMTREC +1 (703) 527-38	887 / +1	(800) 42	4-930)0				<u> </u>
1.10	Other Product Names:			(000)						
		2. HAZARD	IDENTIFIC	CATION						
	2.1 Hazard Identification: This product is classified as a hazardous substance and as a dangerous good according to the classification criteria of NOHSC and ADG Code (Australia). Warning! Extremely flammable. Contents under pressure. Do not puncture or incinerate. Keep away from heat, sparks, and flame. Use only with adequate ventilation. Keep containers closed when not in use. Gross inhalation over exposure may cause central nervous system depression.									
2.2	Routes of Entry:	Inhalation:	YES	Absorption:		YES	Ingestic	on:		YES
2.3	SKIN: C INGESTION: C	an cause irritation, tearing, and blurred vis an cause minor irritation and burns. an cause damage to throat and esophag an cause nasal irritation, dizziness, nausea	gus. Can a		, vomitir	ng and	diarrhea.			
2.4	 2.4 Symptoms of Overexposure: EYES: Mild irritation, redness, and watering. SKIN: Contact dermatitis, characterized by localized red or puffy dry skin and itching. INGESTION: May cause gastro intestinal irritation, nausea, vomiting, and diarrhea. INHALATION: Upper respiratory irritation, coughing, sneezing, staggering gait, giddiness, drowsiness, slurred speech, nausea, and possible nervous system depression. Gross overexposure by purposely inhaling fumes may cause central nervous system depression or death. 									
2.5	 Acute Health Effects: EYES: Mild to moderate irritation to eyes. SKIN: Mild irritation and dermatitis (rash). INGESTION: May cause gastrointestinal irritation. INHALATION: May irritate mucous membranes and upper respiratory system irritation and discomfort. Prolonged overexposure may cause central nervous system depression or death. 									
2.6	Chronic Health Effects: None reported by th	ne manufacturer.								
2.7	Target Organs:									
	Eyes, Skin, Lungs									
N 1.4										
	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 Z400.1-2004 format.									



Page 2 of 7

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Prep	pared to OSHA, A	CC, ANSI,	WHMIS, NOHSO	C & 2001/58 E	C Standards	MSDS R	evision: 1	.2	MSDS	Revisio	n Date: 01/2	9/2011	
			3 CO		N & INGR								
										AITS IN	AID (mg/m3)		
							ACGIH			OSHA -	AIR (mg/m³)	OTHER	
	CHEMICAL NAM	F(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	PEL	STEL	IDLH	OTHER	
ISOH	EXANE	L(J)	107-83-5	SA2995000	203-523-4	≤ 71.8	NA	NA	NA	NA	NA		
											ASPHYXIAN	1T	
152A	PROPELLANT		75-37-6	KI1410000	200-866-1	≤ 25.0	NA	NA	NA	NA	NA		
etha	THANOL		64-17-5	KQ6300000	200-578-6	≤ 3.2	1000	1900	1000	1900	3300		
	1				4. FIRST	AID							
4.1	First Aid: EYES: As a precaution remove contact lenses if worn and 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												
	SKIN:	attenti	ve contaminate on. Do not we	ar contamina	ited clothing u	ntil after	it has bee	en propei	rly cleane	ed.	·		
	INGESTION:	INGESTION: Do not induce vomiting! Call a physician or poison control center for assistance and instructions. Seek immediate medial attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.											
	INHALATION: Remove victim to fresh air at once. If breathing is difficult, provide supplemental oxygen. If breathing has stopped, provide artificial respiration. Seek immediate medical attention. Provide supportive treatment, keeping victim warm and quiet.												
4.2	Medical Conditions	Aggravated b	by Exposure:					HEA	LTH			1	
	None reported	by the mo	anufacturer.						MMAE			3	
													_
								РНТ	SICAL		AKD2	0	
								PRC	<u>DTECTI</u>	VE EC	QUIPMEN	IT B	
								EYES	SK	IN	LUNGS		
5.1				5. FIK	EFIGHTINC	🤊 MEA	SOKE2						
5.1	Flashpoint & Method 15 °F (Lowest co												
5.2	Autoignition Temper		1100										
	ND			1			1						
5.3	Flammability Limits:			Lower Explo	osive Limit (LEL)	:	1.2%	Uppe	er Explosiv	e Limit	(UEL):	6.7%	
5.4	Fire & Explosion Haza		r pressure! Hia	hlv flammable	eliquid NEPA	level 3 A	erosol						
5.5	Warning! Contents under pressure! Highly flammable liquid. NFPA Level 3 Aerosol. 5.5 Extinguishing Methods:												
	Dry Chemical, Carbon Dioxide. Use water spray to keep container cool that are exposed to heat or flames.												
5.6	Firefighting 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.												
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Page 3 of 7

Prenc	Ired to OSHA ACC ANSI WHM	IS, NOHSC & 2001/58 EC Standards	MSDS Revision: 1.2	MSDS Revision Date: 01/29/2011	
		6. ACCIDENTAL REL	EASE MEASURES		
	 Spills: Ventilate if in enclosed area. Eliminate all ignition sources. <u>Small Spills:</u> Wipe, scrape or soak up in an inert material like vermiculite, floor absorbent, or other absorbent material and transfer to isolated well ventilated area. Leaking containers should be removed to an isolated well ventilated area and transferred to other suitable container. Do not puncture or incinerate container, contents under pressure. <u>Large Spills:</u> Contain by diking with a non-combustible absorbent inorganic material. Prevent runoff from entering sewers, storm drains, surface water and soil. Transfer to a DOT approved container. Must be in accordance with federal, state and local laws and regulations. 				
- 1		7. HANDLING & STORA	GE INFORMATION		
	Work & Hygiene Practices: Wash hands thoroughly after us skin contact.	sing this product and before eating,	drinking, or smoking. Remov	ve soiled clothing to prevent prolonged	
	 Storage & Handling: Use and store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Contents under pressure. Do not store at temperatures above 120 °F. Exposure to high temperatures may cause bursting. Do not store in unmarked containers or storage devices. Container is not designed to contain pressure. 				
	 Special Precautions: Empty containers may contain product residues. Do not use pressure to empty container, or it may rupture with explosive force. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water. 				
	9	EXPOSURE CONTROLS & I	DEDSONAL DEOTEC		
8.1		EAF OSURE CONTROLS & I			
	Ventilation & Engineering Controls: Use with adequate ventilation (e.g., open doors and windows, local exhaust ventilation). Local exhaust may be necessary to maintain exposures to within applicable limits. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station).				
	Respiratory Protection: None required, when used with adequate ventilation. Local exhaust ventilation or other engineering controls may be required to control airborne levels below the recommended exposure limits. A respiratory protection program that meets ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirators use.				
	 Eye Protection: Safety glasses with side shields or goggles should be used with this product. If splashing is anticipated, splash goggles and a faceshield are recommended. 				
	Hand Protection: Where contact is likely, impervious gloves are recommended. Do not wear rings, watches, or jewelry that could entrap the material against the skin.				
8.5	Body Protection:				
		9. PHYSICAL & CHEM			
9.1	Density:	3.5			
9.2	Boiling Point:	3.5 195 °F			
9.3	Melting Point:	ND			
9.4	Evaporation Rate:	> 1 (Liquid)			
9.5	Vapor Pressure:	2.3 psia @ 100 °F (Liquid)			
9.6	Molecular Weight:	NA			
9.7	Appearance & Color:	Colorless to pale yellow liquid			
9.8	Odor Threshold:	Mild			
9.9	Solubility:	Negligible			
9.10	Ph	ND			
9.11	Viscosity:	.83 cSt @ 100 °F (Liquid)			
9.12	Other Information:	Bulk density at 20°C 5.8lb/gal (Liqui	d) VOC contents > 94%		



Page 4 of 7

Prepa	Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 1.2 MSDS Revision Date: 01/29/2011					
		10. STABILITY &	REACTIVITY			
10.1	Stability:					
	Stable					
10.2	Hazardous Decomposition Products:					
	Carbon dioxide, carbon mon	oxide.				
10.3	Hazardous Polymerization:					
	Will not occur.					
10.4	Conditions to Avoid:					
	Use or storage near open flam heavily trafficked areas.	mes, sparks, high heat (>120 °F) or o	ther heat sources, and prox	imity to incompatible substances and		
10.5	Incompatible Substances:					
	Oxidizing agents; concentrate	ed Oxygen.				
11.1	Toxicity Data:					
	This product has not been te	sted on animals to obtain toxicolog ne scientific literature. This data has r		logy data for the components of this ocument.		
11.2	Acute Toxicity:					
	See section 2.5					
11.3	Chronic Toxicity:					
	See section 2.6					
11.4	Suspected Carcinogen:					
	This product is not a suspected	d carcinogen in humans.				
11.5	Reproductive Toxicity:					
	This product is not reported to	produce reproductive toxicity in hur	nans.			
	Mutagenicity:	This product is not reported to prod				
	Embryotoxicity:	This product is not reported to prod				
	Teratogenicity:	This product is not reported to prod				
	Reproductive Toxicity:	This product is not reported to produce	uce reproductive effects in t	numans.		
11.6	Irritancy of Product:					
	See Section 2.3					
11.7	Biological Exposure Indices: NE					
11.8	Physician Recommendations:					
11.0	Treat symptomatically.					
	12. ECOLOGICAL INFORMATION					
12.1	Environmental Stability:					
	This product will slowly volatili	ze from soil. Components of this prod	duct will slowly decompose i	into organic compounds.		
12.2	Effects on Plants & Animals:					
	There is no specific data available for this product.					
12.3						
	This material should be kept out of sewage and drainage systems and all bodies of water. Releases of large volumes of this product are expected to be harmful or fatal to overexposed aquatic life.					
	13. DISPOSAL CONSIDERATIONS					
13.1	Waste Disposal: Dispose of in accordance wit	h federal, state or local regulations.				
13.2	Special Considerations:	are hazardous waste due to ignitabil	ity. Waste number D001 (Ig	nitable)		



Page 5 of 7

Prepa	red to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 1.2 MSDS	Revision Date: 01/29/2011
	14. TRANSPORTATION INFORMATION	
	asic description (proper shipping name, hazard class & division, ID Number, packing group) is shown for onal descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.	each mode of transportation.
14.1	49 CFR (GND): CONSUMER COMMODITY, ORM-D	
14.2	IATA (AIR): ID8000, CONSUMER COMMODITY, 9 (Packing Instructions 910)	
14.3	IMDG (OCN): UN1950, AEROSOLS, 2.1, LTD QTY	
14.4	TDGR (Canadian GND): MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE"	
14.5	adr/rid (eu): UN1950, AEROSOLS, 2, LTD QTY	
14.6	mexico (sct): UN1950, AEROSOLES, 2, CANTIDAD LIMITADA	
15.1	15. REGULATORY INFORMATION	
15.1	SARA Reporting Requirements: This product contains substances that are subject to SARA reporting requirements:	
	SARA Codes:	
	Ethanol (CAS# 64-17-5); Acute, chronic, flammable.	
	Isohexane (CAS # 107-83-5): immediate, fire.	
15.2	SARA Threshold Planning Quantity:	
	NA	
15.3	TSCA Inventory Status:	
	All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from i	nventory status.
15.4	CERCLA Reportable Quantity (RQ):	
	This product has no CERCLA Reportable Quantity. However, release into a waterway may require reportenter.	orting to the National Response
15.5	Other Federal Requirements: Clean Air Act:	
	None of the chemicals in this product are listed as Hazardous Substances under the CAA. This material	does not contain any Class 1
	Ozone depletors. This material does not contain any Class 2 Ozone depletors. Clean Water Act:	
	None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the	•
	listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollu	utants under the CWA.
	<u>OSHA:</u> None of the chemicals in this product are considered highly hazardous by OSHA.	
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	
15.7	are listed on the Priorities Substances List. State Regulatory Information:	
15.7	Ethanol CAS# 64-17-5 can be found on the following state right to know lists: California, New Jersey, Flo	rida. Pennsylvania, Minnesota
	and Massachusetts.	
	Isohexane (CAS# 107-83-5)- can be found on the following state right to know lists: Pennsylvania, Minne	esota, Massachusetts.
	California No Significant Risk Level: None of the chemicals in this product are listed.	
	WGK (Water Danger/Protection)	
	Ethanol (CAS# 64-17-5): 0	



Page 6 of 7

Prepo	ared to OSHA, ACC,	ANSI, WHMIS, NOHS	C & 2001/58 EC Standards	MSDS Revision: 1.2	MSDS Revision Date: 01	/29/2011
		15. R		MATION- continue	ed	
5.8	(F) Flammable (Xi) R: 11 Highly flamm R: 36/37/38 Irritatir S: 2 Keep out of re S: 9 Keep contain S: 16 Keep away f S 36/37 Wear suito S: 45 In case of ac possible). S: 7 Keep contain	onents of this produ I Irritant able. Ing to eyes, respirator each of children er in a well-ventilater rom sources of ignition able protective cloth ccident or if you feel er tightly closed.	d area. on – No smoking.		abel where	×
			16. OTHER INFO			
6.1	Other Information: NA					
6.2	Terms & Definitions: See last page of t	his MSDS				
16.3	Disclaimer: This Material Safe government regu knowledge, the completeness are contained herein	ety Data Sheet is c lations must be revi information contain e not guaranteed c relates only to the sp	ewed for applicability to th ned herein is reliable and Ind no warranties of any t	is product. To the best o d accurate as of this d ype, either expressed or duct(s) is combined with o	Standard, 29 CFR §1910. f ShipMate's & CAIG Labor ate; however, accuracy, implied, are provided. The ther materials, all compone edition.	atories, Inc. [*] suitability c e informatio
6.4	Prepared for: CAIG Laboratories 12200 Thatcher Co Poway, CA 92064	s, Inc. ourt -6876 3 (244-4123) phone fax	CANSEL ABORATORIES, INC.			
	ShipMate, Inc. 18436 Hawthorne Torrance, CA 9050 +1 (310) 370-3600 +1 (310) 370-5700 http://www.shipm)4 phone fax	ShipMate Dangerous Goods Training & Consulting			



Page 7 of 7

MSDS-E-DFW-V710A

Prepared to OSHA, ACC, ANSI, WHMIS, NOHSC & 2001/58 EC Standards MSDS Revision: 2.0

HEALTH

MSDS Revision Date: 01/29/2011

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:

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	
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.			
	oxygen to the body.			

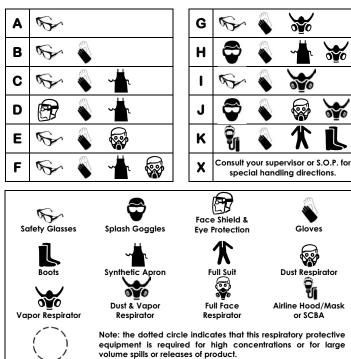
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

CAS No. Chemical Abstract Service Number

0	Minimal Hazard	FLAMMABILITY
1	Slight Hazard	
2	Moderate Hazard	PHYSICAL HAZARD
3	Severe Hazard	PERSONAL PROTECTION
4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:



OTHER STANDARD ABBREVIATIONS:

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

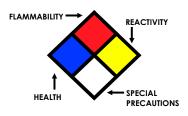
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autoignition	Minimum temperature required to initiate combustion
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
w —	Use No Water
OX	Oxidizer



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				
TC, TC _o , LC _{io} , & 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:

		X	¥,	8	*	×	×
С	E	F	Ν	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful