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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 4.0 SDS Revision Date: 6/15/2015

1. PRODUCT & COMPANY IDENTIFICATION Product Name: 1.1 DEOXIT® D-SERIES Wipes, (P/N D50W), 50 count, 100% Solution, 0% VOC 1.2 Chemical Name: DeoxIT® D-Series; P/N D50W 1.3 Synonyms 1 4 Trade Names: DeoxIT® D100L Product Uses & Restrictions: 1.5 Clean, Deoxidize & Improve Electronic Contacts & Connectors 1.6 Distributor's Name: CAIG Laboratories, Inc. 12200 Thatcher Court, Poway, CA 92064-6876 USA 1.7 Distributor's Address: 1.8 Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN XXXXX) 1.9 Business Phone / Fax: +1 (800) 224-4123 2. HAZARDS IDENTIFICATION This product is classified as a HAZARDOUS SUBSTANCE but NOT as DANGEROUS GOODS Hazard Identification: 2.1 according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). , 100% solution is non-volatile, non-hazardous and non-flammable. WARNING! CAUSES EYE IRRITATION. Classification: Eye Irritant 2; Hazard Statements (H): H320 - 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. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA ppm ppm ppm ES-ES-STEL IDLH CHEMICAL NAME(S) CAS No. RTECS No. **EINECS No** TLV STEL TWA STEL PEAK PEL OTHER NA NA NA 60-100 NA NA NF NA NF NF NA NA PROPRIETARY MIXTURE 4. FIRST AID MEASURES 4.1 First Aid: If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk Ingestion: 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 Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm Eyes: water for at least 15 minutes lifting upper and lower lids, occasionally. Wash thoroughly with soap and water. In case of contact, immediately flush skin with plenty of water for at Skin: least 15 minutes. Remove victim to fresh air at once. If breathing difficult, administer oxygen. If breathing stops give Inhalation: artificial respiration. Keep person warm, quiet and get medical attention. Effects of Exposure: 4.2 If product is swallowed, may cause nausea, vomiting and/or diarrhea. Ingestion: Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and Eyes: May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in Skin: some sensitive individuals. Inhalation: None expected. 4.3 Symptoms of Overexposure: Nausea, intestinal discomfort, vomiting and/or diarrhea. Ingestion: Eyes: Overexposure in eyes may cause redness, itching and watering. Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. Frostbite Skin: like symptoms. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some individuals. 44 Acute Health Effects: Non-irritating when used as directed. Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. 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. Target Organs: 4.6 Eyes, Skin.



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4.7	Madical Canditions		T AID ME								
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other target organs (eyes, skin, an			sorders of			OIL ITY			0
		target organis (eyes, skin, an	a respiratory sy	otomij.			AMMAI				0
							YSICA			ENT	0
									QUIPM	ENI	В
						EYI	=5	SKIN			
	_		REFIGHT							•	
5.1	Fire & Explosion Hazards:	This product is not flammable temperatures to form toxic ga			a fire, this	s product i	may dec	ompos	e at high	1	
5.2	Extinguishing Methods:	Water, Foam, CO ₂ , Dry Cher									
5.3	Firefighting Procedures:	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. ACCID	ENTAL RI	ELEAS	E MEA	SURES	3				
Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Equipment. Plastic or rubber gloves, respirator, eye protection and apron may be required for clean Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Us material such as vermiculite or sand to soak up the product and place into a container for later of water or a material such as "speedy dry" to soak up material. Sweep up material using non-spa			an-up of lar se a non-o disposal. arking mat	ge spills. combustible Do not use							
		plastic brooms, shovels, dus <u>Large Spills</u> : Keep incompa or release. Isolate immediat done with minimal risk. Wea	tible materials e hazard area	(e.g., orgar and keep u	iics such a nauthorize	is oil) awa d personn	y from s el out of	pill. St area. S	ay upwii Stop spi	nd and awa II or release	e if it can be
		7. HANDLII	NG & STC	RAGE	INFOR	MATIC)N				
7.1	Work & Hygiene Practices:	Do not eat, drink or smoke container(s). When used as contact is possible. Wash ur	s intended, no	additional	orotective	equipment	t is nece				
7.2	Storage & Handling:	Use and store in a cool, dr sunlight. Avoid temperatures damage. To avoid unintentic	y, well-ventilate above 120 °F	ed location . Keep awa	(e.g., locally from inc	l exhaust ompatible	ventilati substan				
7.3	Special Precautions:	Clean all spills promptly. Spi	lled material m	ay present	a slipping l	nazard.					
		8. EXPOSURE CO	NTDOL S	9 DED	SONAI	DDO:	TECT	ION			
8.1	Exposure Limits:	6. EXPOSURE CC	ACGIH	& FER	NOHSC	- PRU	IECI	OSHA		OTHER	
0.1	ppm (mg/m ³)	CHEMICAL NAME(S)	TLV STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	JIIILK	
		NA	NA NA	NA	NA	NF	NA	NA	NA		
8.2	Ventilation & Engineering Controls:	General mechanical (e.g., fa exhaust ventilation to effect product. Ensure appropriate	ively remove a	and prevent	buildup o	of vapors	or mist	genera	ted fron	the hand	lling of this
8.3	Respiratory Protection:	No special respiratory prote instances where dusts of this protection authorized by 29 CAS Standard Z94.4-93 and Australia.	product are go CFR §1910.13	enerated, a 84, applical	nd respirat ble U.S. S	ory protectate regula	tion is n ations, c	eeded, or the C	use only Canadiar	/ n	
8.4	Eye Protection:	Avoid eye contact. None required under normal conditions of use. Safety glasses could be used when handling or using large quantities of this product.									
8.5	Hand Protection:	None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. When handling large quantities (e.g., ≥ 1 gallon (3.8 L)), wear rubber, nitrile or impervious plastic gloves.									
8.6	Body Protection:	No apron required when har eye wash stations and delu involving large quantities of t	ge showers sh	ould be av	ailable. U	pon comp	letion o	f work	activities		



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SDS-E-D50W Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 6/15/2015 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, CO₂). Products Hazardous Polymerization: 10.3 Will not occur. Open flames, sparks, high heat, incompatible substances and direct sunlight. 104 Conditions to Avoid: 10.5 Incompatible Substances: 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. This product is not reported to produce embryotoxic effects in humans. Embryotoxicity: 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:

12. ECOLOGICAL INFORMATION

NE

Treat symptomatically.

11.9

Physician Recommendations:

12.1	Environmental Stability:	There is no specific data available for this product.
12.2	Effects on Plants & Animals:	There are no specific data available for this product.
12.3	Effects on Aquatic Life:	There are no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.

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				



49 CFR (GND):

IATA (AIR):

IMDG (OCN):

ADR/RID (EU):

SCT (MEXICO):

SARA Reporting

TSCA Inventory Status:

CERCLA Reportable Quantity

Other Federal Requirements:

Other Canadian Regulations:

State Regulatory Information:

Other Requirements:

Requirements: SARA Threshold Planning

Quantity:

(RQ):

ADGR (AUS):

TDGR (Canadian GND):

14.2

14.3

14.4

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15.8

SAFETY DATA SHEET

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SDS Revision Date: 6/15/2015 14. TRANSPORTATION INFORMATION The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR NOT REGULATED NOT REGULATED NOT REGULATED NOT REGULATED **NOT REGULATED NOT REGULATED NOT REGULATED** 15. REGULATORY INFORMATION This product does not contain any substances subject to SARA Title III, section 313 reporting requirements. There are no specific Threshold Planning Quantities for the components of this product. The components of this product are listed on the TSCA Inventory. This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR Subchapter G. (Cosmetics) 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. 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 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)

		infinediately (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:	government regulations must be reviewed for a Laboratories, Inc.'s knowledge, the information of accuracy, suitability or completeness is not guaran provided. The information contained herein related	SHA's Hazard Communication Standard, 29 CFR §1910.1200. Other applicability to this product. To the best of ShipMate's & CAIG contained herein is reliable and accurate as of this date; however, nteed and no warranties of any type, either expressed or implied, are es only to the specific product(s). If this product(s) is combined with e considered. Data may be changed from time to time. Be sure to			
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/	CAIG LABORATORIES, INC.			
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* 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:

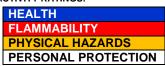
CAS No.	Chemical Abstract Service Number		
EXPOSURE LIMITS IN AIR:			
ACGIH	American Conference on Governmental Industrial Hygienists		
С	Ceiling Limit		
ES	Exposure Standard (Australia)		
IDLH	Immediately Dangerous to Life and Health		
OSHA	U.S. Occupational Safety and Health Administration		
PEL	Permissible 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

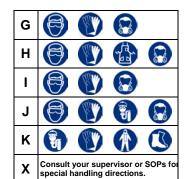
HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α		
В		
С	(E)	
D		
Ε		
F		





Splash Goggler



ır

















Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

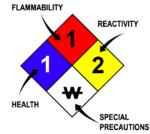
ML	Maximum Limit	
mg/m3	milligrams per cubic meter	
NA	Not Available	
ND	Not Determined	
NE	Not Established	
NF	Not Found	
NR	No Results	
ppm	ppm parts per million	
SCBA	Self-Contained Breathing Apparatus	

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:				
Autoignition	Minimum temperature required to initiate combustion in air with no other			
Temperature	source of ignition			
LEL	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	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
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals				
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 effects				
TC, TC _o , LC _{lo} , & LC _o					
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	(2)	(2)		\odot	®		
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:

F.		*	¥		S	X	×
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

			\Diamond			\ODE		
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment