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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards

SDS Revision: 4.1

	1. PRODUCT & COMPANY IDENTIFICATION								
1.1	Product Name:	DEOXIT	[®] D-SERIE	S, 100%	SPRA	Y, (P/N	D100S-2), 57	′g	
1.2	Chemical Name:	NA							
1.3	Synonyms:	NA							
1.4	Trade Names:		eries, 100% Spr						
1.5	Product Uses & Restrictions:	Clean, deoxi	dize & improve e	electrical conta	acts & cor	nnectors.			
1.6	Distributor's Name:	CAIG Labora							
1.7	Distributor's Address:	12200 Thatc	her Court, Powa	y, CA 92064-6	6876 USA	4			
1.8	Emergency Phone:	CHEMTRE	EC: +1 (703)	527-3887 /	+1 (80	0) 424-930)0		
1.9	Business Phone / Fax:	+1 (800) 224	-4123						
			2 HA	ZARDS	DENT	IFICATI	ON		
2.1	Hazard Identification:	This product						OODS according to	the classification
		criteria of NC	HSC: 1088 (200	04) and ADG (Code (Au	stralia).		-	
			PRESSURIZED n: Aerosols 3; Ey		; MAY BI	JRST IF HE	ATED. CAUSES EN	E IRRITATION.	
2.2	Label Elements:	Hazard State			ed contai	ner; may bu	st if heated. H320	– Causes eye	
		irritation.	o						
		Precautionar	<u>y Statements</u> (F	P): P210 – Ke	ep away	from heat, I	not surface, sparks	, open flames,	
							pierce or burn, e and warm water th		
							S: Rinse cautiously		
							easy to do. Co		
							P412 – Protect from		
							Dispose of contents		
			tment, storage,				•		
2.3	Other Warnings:	KEEP LOCK	ED UP AND OL	JT OF REACH	I OF CHI	LDREN			
		2 0						1	
		3. 0			JNED				
						EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA			
						ppm ppm	ppm		
							ES- ES- ES-	PP	
CHEMI	ICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV STEL			OTHER
1.1-DI	FLUOROETHANE (R-152A)	75-37-6	K14100000	200-866-1	60-100	1000 NA	1000 NF NF	NA NA NA	
	· · · · · ·		<u>iq. Gas; H220, H2</u>		< 00.0				[
Deoxl	T [®] D-SERIES D100L	NA NA Sector NA NA NF NF NA NA NA REACH Reg. No. NON-HAZARDOUS/PROPRIETARY NA N							
		REACH Reg.	NO. NUN-HAZARL						
			4.	FIRST AI	D ME	ASURES	5		
4.1	First Aid:	Ingestion:	If ingested, de	o not induce	vomiting	. If produc	t has been swalld	wed, drink plenty c	of water or milk
			If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk 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						
			swallowed.	e une at wi		naterial was	ingeoted and the		
		Eyes:	Splashes are					with copious amou	
					lifting up	oper and low	er lids, occasionally	 If irritation persists 	repeat flushing.
		<u>Skin</u> :	Get medical at		and water	In case of	contact immediate	ly flush skin with plen	ty of water for at
		<u>3811</u> .						affected area. If irrita	
			swelling persis						
		Inhalation:	Remove victim	to fresh air at	once. If	breathing di	fficult, administer o	kygen. If breathing st	ops give
4.2	Effects of Exposure:	Ingestion:					get medical attenti ng and/or diarrhea.		
··		Eyes:	•				0	nclude redness, itchi	ng irritation and
		<u>Lyes.</u>	watering.		yes. Oyi		verexposure may n		ng, initation and
		<u>Skin:</u>	0		e produc	t can cause	allergic skin reactio	ons (e.g., rashes, wel	lts, dermatitis) in
		Inhalation:	None expected						
4.3	Symptoms of Overexposure:	Ingestion:	Nausea, intest		t vomitin	a and/or diar	rhea		
	,	Eyes:	Overexposure			0			
		<u>Eyes</u> . Skin:	•				•	irritation of affected	areas Froethito
		<u>onii</u> .						j., rashes, welts, der	



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	4. FIRST AID MEASURES – cont'd					
4.4	Acute Health Effects:	Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. Frostbite like effect to skin.				
4.5	Chronic Health Effects:	Chronic Health Effects: Overexposure may trigger asthma-like symptoms in some sensitive individuals. May also induce skin sensitization and respiratory hypersensitivity. Possible allergic dermatitis.				
4.6	Target Organs:	Eyes, Skin, Respiratory System.				
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions, and disorders of the	HEALTH	1		
	riggiarated by Exposure.	target organs (eyes, skin, and respiratory system).	FLAMMABILITY	2		
			PHYSICAL HAZARDS	0		
			PROTECTIVE EQUIPMENT	В		
			EYES SKIN			
		5. FIREFIGHTING MEASURES				
5.1	Fire & Explosion Hazards:	Level 1 Aerosol (NFPA 30B). Aerosols may burst at temperatures abo	ove 120 °F Cool uninvolved			
		containers to prevent possible bursting. Aerosols may be projectile				
		aerosols are bursting, stay clear until bursting is complete. If involve				
		decompose at high temperatures to form toxic gases (e.g., CO, Hydrog				
5.2	Extinguishing Methods:	Water, Foam, CO ₂ , Dry Chemical. Use water spray to cool unopened		2		
5.3	Firefighting Procedures:	Fight fires as for surrounding materials. As in any fire, wear MSHA/NIC				
		breathing apparatus (pressure-demand) and full protective gear. Ke after the fire is out. Use water spray to cool fire-exposed surfaces an				
		fire upwind. Avoid spraying water directly into storage containers be		\mathbf{X}		
		Prevent runoff from fire control or dilution from entering sewers, drai		~		
		any natural waterway. Firefighters must use full bunker gear includi				
		pressure self-contained breathing apparatus to protect against potent decomposition products and oxygen deficiencies.	ial nazardous compustion or			
	1	6. ACCIDENTAL RELEASE MEASU				
6.1	Spills:	Before cleaning any spill or leak, individuals involved in spill clea				
		Equipment. Plastic or rubber gloves, respirator, eye protection and ap				
		Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible material such as vermiculite or sand to soak up the product any liquid and place into a container for later disposal. Do				
		not use water or a material such as "speedy dry" to soak up material. Sweep up material using non-sparking materials				
		(e.g., plastic brooms, shovels, dustpans) and place into a metal or plastic container.				
		Large Spills: Keep incompatible materials (e.g., organics such as oil)				
		or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant.				
		Sweep up material using non-sparking materials (e.g., plastic broor				
		plastic container.				
		7. HANDLING & STORAGE INFORMA	TION			
7.1	Work & Hygiene Practices:			avoid puncturing		
		Do not eat, drink or smoke when handling this product. Contents container(s). When used as intended, no additional protective equip				
		contact is possible. Wash unintentional residues with soap and warm				
7.2	Storage & Handling:	Use and store in a cool, dry, well-ventilated location (e.g., local exh				
		sunlight. Avoid temperatures above 120 °F. Keep away from incompa		ers from physical		
7.3	damage. To avoid unintentional spraying keep cap in place when not in use. Special Precautions: Clean all spills promptly.					
		8. EXPOSURE CONTROLS & PERSONAL PI	ROTECTION			
8.1	Exposure Limits:	ACGIH NOHSC	OSHA OTHE	R		
	ppm (mg/m³)	CHEMICAL NAME(S) TLV STEL ES-TWA ES-STEL ES-P				
8.2	Ventilation & Engineering		IF NA NA NA	lagal or gaparal		
0.2	Controls:	General mechanical (e.g., fans) or natural ventilation is sufficient will exhaust ventilation to effectively remove and prevent buildup of var				
		product. Ensure appropriate decontamination equipment is available (
8.3	Respiratory Protection:	No special respiratory protection is required under typical circumsta				
		instances where dusts of this product are generated, and respiratory p				
		protection authorized by 29 CFR §1910.134, applicable U.S. State				
		CAS Standard Z94.4-93 and applicable standards of Canadian Provi Australia.	nces, EC member States, or			
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.		7		
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8. EXPOSURE CONTROLS & PERSONAL PROTECTION			
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 handling small quantities. When handling large quantities (e.g., \geq 5 lbs), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.	

9. PHYSICAL & CHEMICAL PROPERTIES

	5. FITSICAL & CHEMICAL PROPERTIES		
Appearance:	Aerosol. Light red liquid.		
Odor:	Ethereal/hydrocarbon odor		
Odor Threshold:	NA		
pH:	NA		
Melting Point/Freezing Point:	NA		
Initial Boiling Point/Boiling Range:	-25 °C @ 760 mmHg		
Flashpoint:	NA		
Upper/Lower Flammability Limits:	LEL: 4.32 % v/v - UEL: 20.2 % v/v (for 1,1-Difluoroethane)		
Vapor Pressure:	74 psig (5.1 bar) @ 20 °C		
Vapor Density:	1,1-Difluoroethane: 2.3 (air = 1.0)		
Relative Density:	0.884 – liquid concentrate		
Solubility:	Not soluble in water		
Partition Coefficient (log Pow):	NA		
Autoignition Temperature:	1,1-Difluoroethane: 455 °C (851 °F)		
Decomposition Temperature:	NA		
Viscosity:	5.4-7.5 cSt @ 104 °F		
Other Information:	VOC: 1,1-Difluoroethane - exempt per 40 CFR 51.100		
	10. STABILITY & REACTIVITY		
Stability:	Stable under normal conditions; unstable with heat or contamination.		
Hazardous Decomposition Products:	Change in color signifies exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Discard solution.		
Hazardous Polymerization:	Will not occur.		
Conditions to Avoid:	Open flames, sparks, high heat, incompatible substances and direct sunlight.		
Incompatible Substances:	Avoid extreme heat and ignition sources. Store away from oxidizers.		
	11. TOXICOLOGICAL INFORMATION		
Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: YES		
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.		
Acute Toxicity:	Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches, and nausea.		
Chronic Toxicity:	This material may aggravate any pre-existing skin condition (e.g., dermatitis).		
Suspected Carcinogen:	No.		
Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.		
	Odor: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information: Stability: Hazardous Decomposition Products: Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data: Acute Toxicity: Suspected Carcinogen:		

	, ,			
	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 cause teratogenic effects in humans.		
	This product is not reported to cause reproductive effects in humans.			
11.7 Irritancy of Product: The product can cause allergic skin		The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.		
11.8	Biological Exposure Indices:	NE		
11.9	1.9 Physician Recommendations: Treat symptomatically.			
		12. ECOLOGICAL INFORMATION		
12.1	Environmental Stability:	There is no specific data available for this product.		

12.1	Environmental Stability:	There is no specific data available for this product.		
12.2	Effects on Plants & Animals:	There is no specific data available for this product.		
12.3	Effects on Aquatic Life:	There is no specific data available for this product.		



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	13. DISPOSAL CONSIDERATIONS			
13.1	Waste Disposal:	Disposal should be in accordance with local, state, provincial and federal regulations		
13.2	Special Considerations:	NA		

		14. TRANSPORTATION INFORMATION		
The desc	basic description (ID Nun riptive information may be	nber, proper shipping name, hazard class & division, packing group) is shown for each mo e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.	de of transportation. Additional	
14.1	49 CFR (GND):	UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L)	\diamond	
14.2	IATA (AIR):	UN1950, AEROSOLS, NON-FLAMMABLE, 2.2 (LTD QTY, IP VOL \leq 1.0 L); or ID8000, CONSUMER COMMODITY, ORM-D (IP VOL \leq 1.0 L)		
14.3	IMDG (OCN):	UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L)	\diamond	
14.4	TDGR (Canadian GND):	UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L)	\diamond	
14.5	ADR/RID (EU):	UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L)	\diamond	
14.6	SCT (MEXICO):	UN1950, AEROSOLES, 2.2 (CANT. LTDA., IP VOL ≤ 1.0 L)	\diamond	
14.7	ADGR (AUS):	UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L)	\diamond	
15.1		15. REGULATORY INFORMATION		
15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, section 313 report	ting requirements.	
15.2	SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantities for the components of this product.		
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory or are otherwise exemp	t.	
15.4	CERCLA Reportable Quantity (RQ):	NA		
15.5	Other Federal Requirements:	NA		
15.6	Other Canadian Regulations:			
15.7	Bitate Regulatory Information: Difluoroethane can be found on the following state criteria lists: Massachusetts Hazardous Substances List (MA) and New Jersey Right-to-Know List (NJ). No other 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 (NJ), 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 List (WI).			
15.8	Other Requirements:	NA I I I I I I I I I I I I I I I I I I I		



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		16. OTHER INFORMATION		
16.1	Other Information:	 WARNING! PRESSURIZED CONTAINER; MAY BURST IF HEATED. CAUSES EYE IRRITATION. Keep away from heat, hot surface, sparks, open flames, and other ignition sources. No smoking. Do not pierce or burn, even after use. Wash hands and exposed skin areas with soap and warm water thoroughly after handling. Do not touch eyes. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical help. Protect from sunlight. Do not expose to temperatures exceeding 50 °C (122 °F). KEEP LOCKED UP AND OUT OF REACH OF CHILDREN. 		
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.		
16.3	Disclaimer:	This 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 is 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	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/		
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		



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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		
C	Ceiling Limit		
ES	Exposure Standard (Australia)		
IDLH	Immediately Dangerous to Life and Health		
OSHA	OSHA U.S. Occupational Safety and Health Administration		
PEL	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	HEALTH
1 Slight Hazard		Slight Hazard	FLAMMABILITY
	2	Moderate Hazard	PHYSICAL HAZARDS
	3	Severe Hazard	PERSONAL PROTECTION
	4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:

Α			G 🕞 🕚 😡
в			н 🕞 🕚 🏠 🚱
С			I 🕞 🖤 😨
D	B		J 🚱 🚯 🖓 🕄
Е			к 🚱 🖤 🚯 🔇
F			X Consult your supervisor or SOPs for special handling directions.
Sa	ifety Glasso	es Splash Goggles	Face Shield & Gloves
	Boots	Synthetic Apron	Protective Clothing & Full Suit
Full Face Respirator			- Full Face Respirator or SCBA
ОТН	-	IDARD ABBREVIATION	IS:
	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
 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 Lower Explosive Limit	- lowest percent of vapor in air, by volume, that will					
explode or ignite in the	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:

IOXICOLO	FORMATION:				
	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 _{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 toxic effects			
TC, TC₀, LC	¦₀, & LC₀				
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 K _{ow} o	r log K _{oc}	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

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

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