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

SDS Revision: 7.2

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1.1	Product Name:									-					
1.1	Floduct Name.	D	EOXIT®	D-SERIES	S, 5% SP	RAY, 1	42 g	ram	is, V	<u>'0C</u>	CON	/IPL	IAN	Г (Р/I	N D5S-6)
1.2	Chemical Name:	-	<u> </u>	listed in section											
1.3	Synonyms:				(PN D5S-6, D5										
1.4	Trade Names:	De	eoxIT [®] D Serie	es, 5% Spray ((PN D5S-6, D5	S-6P, D5	S-6ET a	and D	5S-6-L	.MH)					
1.5	Product Use:	Cl	ean, deoxidiz	e & improve el	lectrical contac	ts & conn	ectors								
1.6	Distributor's Name:		AIG Laborator												
1.7	Distributor's Address:	12	200 Thatcher	[·] Court, Poway	, CA 92064-68	876 USA									
1.8	Emergency Phone:	C	HEMTREC	: +1 (703) {	527-3887 / +	⊦1 (800)	424-9	9300	(CCI	N205	206)				
1.9	Business Phone / Fax:		l (800) 224-41												
				2 114											
2.1	lise and block for the second				ZARDS I										
2.1	Hazard Identification:				HAZARDOUS			nd as	DANG	EROU	JS GO	ODS a	accord	ng to th	e classificatio
					4) and ADG Co AMMABLE AB			CLIDI		ONT		MAV			
								JUN				IVIAI	BUR		EATED. WA
			-	erosols 1, Asp			0.								
2.2	Label Elements:				2 – Extremely	flammable	aeros	ol. H	229 –	Pressi	urized of	contair	ner: ma	av	•
					be fatal if swall									,	
		Pr	ecautionary S	Statements (P)): P210 – Keep	away fro	m heat	, hot :	surface						
		oth	her ignition so	urces. No sm	oking. P211 -	Do not s	oray on	an op	en fla	me or	other i	gnition	sourc	e.	<u><u><u> </u></u></u>
					n, even after u										$\mathbf{\nabla}$
					ED: Immediat										X
					 If skin irritat 										
					otect from sun										
				- Dispose of	contents/conta	ainer to a	license	d trea	tment,	stora	ge or c	Isposa	ai tacili	ty	
		(1)	SDF).												
2.3	Other Warnings:	KE	EEP OUT OF	REACH OF C	HILDREN.										
			3. CO	MPOSITI	ON & ING	REDI	ΞΝΤΙ	NF	DRN	ΙΑΤΙ	ON				
			0.00								SURE LI	MITS IN	AIR (m	n/m ³)	
							ACO	GIH		NOHS			OSH		
							рр	m		ppm			ppm		
									ES-	ES-	ES-				
CHEMICAL NAME(S)			CAS No. 64742-47-8	RTECS No. OA5504000	EINECS No. 265-149-8	% 40-70	TLV (5)	STEL NA	TWA NF	STEL NF	PEAK NF	PEL (5)	STEL NA	IDLH NA	OTHER MIST
							(5)	INA		INF	INF	(3)	ΝA	INA	IVII 3 I
	RLESS MINERAL SPIRITS														OKINI
			REACH Reg. N		, <u>,</u> ,	1	1000	ΝΔ	1000	NE	NE	ΝΔ	ΝΔ	ΝΔ	
ODOR			REACH Reg. N 75-37-6	K14100000	200-866-1	10-30	1000 H280	NA	1000	NF	NF	NA	NA	NA	SKIN
DDOR	IOROETHANE (R-152A)		REACH Reg. N 75-37-6 REACH Reg. N	K14100000 No. 100000788;	200-866-1 Flam. Gas 1, Liq	10-30 . Gas; H22), H280					1			
DDOR	RLESS MINERAL SPIRITS		REACH Reg. N 75-37-6 REACH Reg. N PROPRIETAR	K14100000 No. 100000788; Y – TRADE SEC	200-866-1 Flam. Gas 1, Liq CRET	10-30		NA	1000 NF		NF NF	NA	NA NA		
DDOR	IOROETHANE (R-152A)		REACH Reg. N 75-37-6 REACH Reg. N PROPRIETAR	K14100000 No. 100000788;	200-866-1 Flam. Gas 1, Liq CRET	10-30 . Gas; H22), H280					1			
DDOR	IOROETHANE (R-152A)		REACH Reg. N 75-37-6 REACH Reg. N PROPRIETAR	K14100000 No. 100000788; Y – TRADE SEC No. Non-hazardo	200-866-1 Flam. Gas 1, Liq CRET ous/Proprietary	10-30 . Gas; H22 3-7), H280 NA	NA				1			
DIFLU	IOROETHANE (R-152A)		REACH Reg. N 75-37-6 REACH Reg. N PROPRIETAR REACH Reg. N	K14100000 No. 100000788; Y – TRADE SEC No. Non-hazardo 4.	200-866-1 Flam. Gas 1, Liq CRET Dus/Proprietary	10-30 . Gas; H22 3-7 D MEA), H280 NA	NA ES	NF	NF	NF	NA	NA	NA	
DDOR	RLESS MINERAL SPIRITS IOROETHANE (R-152A) IIT® D-SERIES, D100L		REACH Reg. N 75-37-6 REACH Reg. N PROPRIETAR REACH Reg. N gestion: If	K14100000 No. 100000788; Y – TRADE SEC No. Non-hazardo 4.	200-866-1 Flam. Gas 1, Liq CRET ous/Proprietary	10-30 . Gas; H22 3-7 D MEA Poison Co), H280 NA SUR	NA ES center/	NF	NF or. Do	NF not inc	NA Juce v	NA omiting	NA g. If pro	Doduct has bee
DIFLU	RLESS MINERAL SPIRITS IOROETHANE (R-152A) IIT® D-SERIES, D100L		REACH Reg. N 75-37-6 REACH Reg. N PROPRIETAR REACH Reg. N gestion: If St ool	K14100000 No. 10000788; Y – TRADE SEC No. Non-hazardo 4. I ingested imm wallowed, drin r milk. Never g	200-866-1 Flam. Gas 1, Liq CRET bus/Proprietary FIRST AII ediately call a k plenty of wa give water or n	10-30 . Gas; H22 3-7 D MEA Poison Co ter or milk hilk to an u	SUR NA SUR IMMEI	NA ES center, DIATE cious	NF docto	NF or. Do f the p n. Cor	NF not incoatient tact th	NA Juce v is vom e near	Omiting, or	DA	Doduct has bee e to offer wate
DOR	RLESS MINERAL SPIRITS IOROETHANE (R-152A) IIT® D-SERIES, D100L		REACH Reg. N 75-37-6 REACH Reg. N PROPRIETAR REACH Reg. N Igestion: If St Ol Igestion If	K14100000 No. 10000788; Y – TRADE SEC No. Non-hazardo 4. I ingested imm wallowed, drin r milk. Never g ical emergence	200-866-1 Flam. Gas 1, Liq CRET bus/Proprietary FIRST AII ediately call a k plenty of wa give water or n sy number. Pr	10-30 . Gas; H22 3-7 D MEA Poison Co ter or milk hilk to an u rovide an	SUR NA SUR IMMEI Inconso estimat	NA ES center, DIATE cious	NF docto	NF or. Do f the p n. Cor	NF not incoatient tact th	NA Juce v is vom e near	Omiting, or	DA	Doduct has bee e to offer wate
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DOR	RLESS MINERAL SPIRITS IOROETHANE (R-152A) IIT® D-SERIES, D100L		REACH Reg. N 75-37-6 REACH Reg. N PROPRIETAR REACH Reg. N Igestion: If st st gestion: If st st st st st st st st st st st st st	K14100000 No. 10000788; Y – TRADE SEC No. Non-hazardo d. Ingested imm wallowed, drin r milk. Never g cal emergenc mount of the s plashes are n	200-866-1 Flam. Gas 1, Liq CRET bus/Proprietary FIRST AII ediately call a k plenty of wa give water or n cy number. Pr ubstance that not likely; howe	10-30 . Gas; H22 3-7 D MEA Poison Co ter or milk hilk to an u ovide an was swall ever, if pr	D, H280 NA SUR ontrol C IMMEI unconse estimat owed. oduct g	NA EES center, DIATE cious te of t	NF docto LY. I persor he tim	NF or. Do f the p n. Cor ne at v	NF not inc patient ntact th which t	NA duce v is vom e near he ma	omiting niting, o rest Po aterial pious	nA g. If pro continue ison Co was ing amoun	oduct has bee e to offer wate ontrol Center o gested and th ts of lukewarr
DOR	RLESS MINERAL SPIRITS IOROETHANE (R-152A) IIT® D-SERIES, D100L		REACH Reg. N 75-37-6 REACH Reg. N PROPRIETAR REACH Reg. N Igestion: If st o gestion: If st o lo al yes: S w	K14100000 No. 10000788; Y – TRADE SEC No. Non-hazardo d. Ingested imm wallowed, drin r milk. Never cal emergenc mount of the s plashes are n ater for at lea:	200-866-1 Flam. Gas 1, Liq CRET bus/Proprietary FIRST AII ediately call a k plenty of wa give water or n y number. Pr ubstance that not likely; howe st 15 minutes	10-30 . Gas; H22 3-7 DMEA Poison Co ter or milk nilk to an u ovide an was swall ever, if pr lifting upp), H280 NA SUR ontrol C IMMEI unconse estimat owed. oduct g er and	NA EES Conter, DIATE cious te of t gets in lower	NF docto LY. I persor he tim the e lids, c	NF or Do f the p n. Cor ne at v eyes,	not incontinue not incontinue ntact th which the flush wo onally.	NA Juce v is vom e near he ma rith co Remo	NA omiting, niting, o rest Po aterial pious ove co	nA g. If pro continue ison Co was ing amoun	oduct has bee e to offer wate ontrol Center o gested and th ts of lukewarr nses if preser
DOR DIFLU DEOX	RLESS MINERAL SPIRITS IOROETHANE (R-152A) IIT® D-SERIES, D100L	Ē	REACH Reg. N 75-37-6 REACH Reg. N PROPRIETAR REACH Reg. N Igestion: If st gestion: If st uppes: S w ai	K14100000 No. 10000788; Y – TRADE SEC No. Non-hazardo d. Ingested imm wallowed, drin r milk. Never cal emergenc mount of the s plashes are n ater for at lea: nd easy to do-	200-866-1 Flam. Gas 1, Liq CRET bus/Proprietary FIRST AII ediately call a k plenty of wa give water or n y number. Pr ubstance that not likely; how st 15 minutes continue rinsin	10-30 . Gas; H22 3-7 DMEA Poison Co ter or milk nilk to an u ovide an was swall ever, if pr lifting upp ng. If irrita), H280 NA SUR ontrol C IMME Inconse estimat owed. oduct g er and tion pe	NA ES center, DIATE cious te of t lower rsists	NF docto LY. I persor he tim the o lids, o repea	NF or. Do f the p n. Cor ne at v eyes, occasion t flushi	not incontinue patient atact th which t flush wo onally. ng. Ge	NA Juce v is vom e near he ma rith co Remo	omiting niting, o rest Po aterial pious pve co lical at	NA g. If procontinuo ison Co was ing amount ntact le tention.	oduct has bee e to offer wate ontrol Center o gested and th ts of lukewarr nses if preser
DOR DIFLU DEOX	RLESS MINERAL SPIRITS IOROETHANE (R-152A) IIT® D-SERIES, D100L	Ē	REACH Reg. N 75-37-6 REACH Reg. N PROPRIETAR REACH Reg. N Igestion: If st op op op op op op op op op op op op op	K14100000 No. 10000788; Y – TRADE SEC No. Non-hazardo Ad. I ingested imm wallowed, drin r milk. Never ccal emergenc mount of the s plashes are n ater for at lea nd easy to do- /ash thoroughl	200-866-1 Flam. Gas 1, Liq CRET bus/Proprietary FIRST AII ediately call a k plenty of wa give water or n y number. Pr ubstance that tot likely; how st 15 minutes continue rinsii ly with soap ar	10-30 . Gas; H22 3-7 D MEA Poison Co ter or milk hilk to an u ovide an was swalk ever, if pr lifting upp ng. If irrita d water.), H280 NA SUR ontrol C IMME unconse estimat owed. oduct g er and tion pe In case	NA EES Conterno DIATE cious te of t lower rsists of co	NF docto LY. I persor he tim the e lids, c repea	NF or. Do f the p n. Cor ne at v occasio t flushi immed	not inco patient tract th which t flush w onally. ng. Go liately t	NA duce v is vom e near he ma rith co Remo t meo iush s	NA omiting, o rest Po aterial pious ove co lical at kin wit	NA g. If procontinue ison Co was ing amount ntact le tention. h plenty	Deduct has bee e to offer wate ontrol Center of gested and th ts of lukewarr nses if preser y of water for a
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DIFLU	RLESS MINERAL SPIRITS IOROETHANE (R-152A) IIT® D-SERIES, D100L	E) Sł	REACH Reg. N 75-37-6 REACH Reg. N PROPRIETAR REACH Reg. N Igestion: If st oo oo oo oo oo oo oo oo oo oo oo oo oo	K14100000 No. 10000788; Y – TRADE SEC No. Non-hazardo A. I ingested imm wallowed, drin r milk. Never ccal emergenc mount of the s plashes are n ater for at lea nd easy to do- /ash thoroughl ast 15 minute welling persists	200-866-1 Flam. Gas 1, Liq CRET Dus/Proprietary FIRST AII ediately call a k plenty of wa give water or n cy number. Pr ubstance that tot likely; how st 15 minutes continue rinsin ly with soap ar s. Treat for fro s, contact a ph	10-30 Gas; H22 3-7 DMEA Poison Co ter or milk hilk to an u ovide an was swalk ever, if pr lifting upp ng. If irrita d water. ostbite if n ysician im), H280 NA SUR IMME Inconse estimat owed. oduct g er and tion pe In case eccessa mediate	NA EES Conter, DIATE cious te of t lower rsists of co ry, be ely.	NF docto LY. I persor he tim the o lids, o repea ntact, gently	NF or. Do f the p n. Cor ne at v occasio t flushi immed v warm	NF not incontinue patient that the which the flush wo philter of hing aff	NA duce v is vom e near he ma rith co Remo et mec dush s ected	NA omiting, o rest Po aterial pious ove co dical at kin wit area.	NA g. If pro continue ison Co was ing amoun ntact le tention. h plenty If irritat	oduct has bee e to offer wate ontrol Center c gested and th ts of lukewarr nses if preser y of water for a ion, redness c
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DDOR DIFLU DEOX	RLESS MINERAL SPIRITS IOROETHANE (R-152A) UT® D-SERIES, D100L	EL SI II II II SI	REACH Reg. N 75-37-6 REACH Reg. N PROPRIETAR REACH Reg. N Igestion: If st on lo gestion: If yes: M ihalation: R an gestion: If yes: M kin: M	K14100000 No. 10000788; Y – TRADE SEC No. Non-hazardo No. Non-hazardo A. I ingested imm wallowed, drin r milk. Never is cal emergence mount of the s plashes are n ater for at leas nd easy to do- /ash thoroughi ast 15 minute welling persists emove victim trificial respirat product is swa loderately irrita atering.	200-866-1 Flam. Gas 1, Liq CRET Dus/Proprietary FIRST AII ediately call a k plenty of wa give water or n cy number. Pr ubstance that not likely; howe st 15 minutes continue rinsii ly with soap ar s. Treat for fro s, contact a ph to fresh air at of tion. Keep per allowed, may co ating to the eye to skin. The individuals.	10-30 . Gas; H22 3-7 D MEA Poison Co ter or milk nilk to an u rovide an was swall ever, if pr lifting upp ng. If irrita d water. botbite if n ysician im sonce. If bi son warm ause nause s. Sympt	SUR NA SUR Ontrol C IMME Inconse estimato oved. oduct g er and tion pe ln case ecessa mediate eathing ours of	NA enter, DIATE cious te of f lower rsists of co ry, be ely. g diffic and ge miting overe	NF doctcc LLY. I bersor he tim n the o repea ntact, gently ult, ad at med and/o xposu	NF or. Do f the p . Cor he at v boccasic t flushi immec v warm ministe ical at r diarr re mar	NF not inc patient itact th which t flush w onally. ng. Ge liately t ning aff er oxyg tention <u>hea.</u> y includ	NA Juce v is vorr e near he ma rith cc Rem et mec ilush s ected en. If de red	NA omiting, o est Po aterial pious pious pical at kin wit area. breath	NA g. If pro- continue ison Co- was ing amoun- ntact le tention. h plenty If irritat hing sto	Deduct has bee e to offer wate ontrol Center of gested and th ts of lukewarr nses if preser y of water for a ion, redness of ps give



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	4. FIRST AID MEASURES – cont'd										
4.3	Symptoms of Overexposure:	Ingestion: Nausea, intestinal discomfort, vomiting and/or diarrhea. Eyes: Overexposure in eyes may cause redness, itching and watering. Skin: Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. Frostbite like symptoms. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some individuals.									
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:	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			disorders	of the	HEALT	H			1
		target organs (eyes, skin, and respir	atory s	ystem).			FLAMM	ABILIT	Y		3
							PHYSIC	AL HAZ	ZARDS		0
							PROTE	CTIVE E		ENT	В
							EYES	SKIN	1		
		5. FIREFI	СПТ			DEC					
5.1	Fire & Evolucion Hezerda:						400 %	0		. 1	
	Fire & Explosion Hazards:	Level 3 Aerosol (NFPA 30B). Aeros containers to prevent possible burs aerosols are bursting, stay clear However, if involved in a fire, this gases (e.g., CO, hydrogen fluoride).	sting. until b	Aerosols ursting is	may be s complet	projectile e. This	hazards product	when bu is not fla	rsting. I ammable	f	
5.2 5.3	Extinguishing Methods: Firefighting Procedures:	Water, Foam, CO ₂ , Dry Chemical. L Fight fires as for surrounding ma									3
		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 ACCIDENT			SE ME		RES				
6.1	Spills:	6. ACCIDENTAL RELEASE MEASURES Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. Plastic or rubber gloves, respirator, eye protection and apron may be required for clean-up of large spills. <u>Small Spills</u> : Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible material such as vermiculite or sand to soak up the product 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 plastic container or plastic liner within another container. <u>Large Spills</u> : Keep incompatible materials (e.g., organics such as oil) away from spill. Stay upwind and away from spill 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.									
			OT/				TION				
7.1	Work & Hygiene Practices:	7. HANDLING & Do not eat, drink or smoke when container(s). When used as intend contact is possible. Wash unintention	handlir ded, no	ng this p addition	roduct. C al protecti	Contents ve equip	under pre ment is ne	ssure. I ecessary.	Handle a Use ch	s to av nemical	oid puncturing goggles if eye
7.2	Storage & Handling:	Use and store in a cool, dry, well- sunlight. Avoid temperatures above damage. To avoid unintentional spr.	ventilat 120 °F	ed locati . Keep a	on (e.g., l away from	ocal exh incompa	aust ventil tible subst	lation, fai ances. F	ns) away Protect co	from h	eat and direc s from physica
7.3	Special Precautions:	Clean all spills promptly.			•						
		8. EXPOSURE CONTR	ROLS	6 & PE	RSON	AL PI	ROTEC	TION			
8.1	Exposure Limits:		AC	GIH		NOHSC			OSHA		OTHER
	ppm (mg/m ³)	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	
		ODORLESS MINERAL SPIRITS	(5)	NA	NF	NF	NF	(5)	NA	NA	MIST
		DIFLUOROETHANE (R-152A)	1000	NA	1000	NF	NF	NA	NA	NA	SKIN
8.2	Ventilation & Engineering Controls:	DEOXIT® D-SERIES, D100L General mechanical (e.g., fans) or exhaust ventilation to effectively re product. Ensure appropriate decont	emove	and prev	ent buildu	up of vap	oors or mi	st gener	ated fron	n the ha	andling of this



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8.3	Respiratory Protection:	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd No special respiratory protection is required under typical circumstances of use or handling. In
0.0	respiratory rocculon.	No special respiratory protection is required under typical circumstances of use or handling. In instances where dusts of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia.
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 handling small quantities. When handling large quantities (e.g., ≥ 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
9.1	Appearance:	
9.2	Odor:	Light red aerosol spray/mist
9.3	Odor Threshold:	Ethereal hydrocarbon odor
9.3 9.4	pH:	NA NA
9.4	Melting Point/Freezing Point:	NA NA
9.6	Initial Boiling Point/Boiling	
	Range:	171.1-204 °C @ 760 mm Hg
9.7	Flashpoint:	48.8 – 54.4 °C (120 - 130 °F)
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	4.9 (air = 1.0)
9.11	Relative Density:	0.75
9.12	Solubility:	Not soluble in water
9.13	Partition Coefficient (log Pow):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	10.0 cPs
9.17	Other Information:	VOC: 588 g/L
		10. STABILITY & REACTIVITY
10.1	Stability:	
10.1	Hazardous Decomposition	Stable under normal conditions; unstable with heat or contamination.
10.2	Products: Hazardous Polymerization:	Change in color signifies exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Discard solution.
10.3	Conditions to Avoid:	Will not occur.
10.4	Incompatible Substances:	Open flames, sparks, high heat, incompatible substances and direct sunlight.
10.5	incompatible Substances.	Avoid extreme heat and ignition sources. Store away from oxidizers.
		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	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, available for some of the components of the product.
11.3	Acute Toxicity:	Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.
11.4	Chronic Toxicity:	This material may aggravate any pre-existing skin condition (e.g., dermatitis).
11.5	Suspected Carcinogen:	This product contains less than 3% Dimethyl Sulfoxide (DMSO) per IP 346. This product does not contain any chemicals known to the State of California to cause cancer or other reproducti
		harm. For more information go to www.P65Warnings.ca.gov
11.6	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans
11.6	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.
11.6	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.
11.6	Mutagenicity: Embryotoxicity:	This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans.
11.6	Mutagenicity: Embryotoxicity: Teratogenicity:	This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to cause teratogenic effects in humans.
11.6	Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity:	This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans.
	Mutagenicity: Embryotoxicity: Teratogenicity:	This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to cause teratogenic effects in humans.



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	12. ECOLOGICAL INFORMATION				
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.			
		· · · ·			

13. DISPOSAL CONSIDERATIONS

 13.1
 Waste Disposal:
 Dispose of in accordance with federal, state and local regulations.

 13.2
 Special Considerations:
 U.S. EPA RCRA Hazardous Waste: D001 (Characteristic – Ignitability). California Waste Code: 331 (liquid concentrate).

14. TRANSPORTATION INFORMATION

		er, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. A/ICAO, IMDG and the CTDGR.	Additional descriptive information
14.1	49 CFR (GND):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L); or CONSUMER COMMODITY, ORM-D (IP VOL ≤ 1.0 L) – until 12/31/2020	\diamond
14.2	IATA (AIR):	UN1950, AEROSOLS, FLAMMABLE, 2.1 (LTD QTY, IP VOL \leq 0.5 L); or ID8000, CONSUMER COMMODITY, ORM-D (IP VOL \leq 0.5 L)	
14.3	IMDG (OCN):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL \leq 1.0 L)	\diamond
14.4	TDGR (Canadian GND):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L); or MARK PACKAGE "LIMITED QUANTITY," "LTD QTY," or "QUANT LTÉE" or "QUANTITÉ LIMITÉE"	\diamond
14.5	ADR/RID (EU):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)	\diamond
14.6	SCT (MEXICO):	UN1950, AEROSOLES, 2.1 (CANTIDAD LIMITADA, IP VOL ≤ 1.0 L)	\diamond
14.7	ADGR (AUS):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)	\diamond

15. REGULATORY INFORMATION

45.4	0101 D	
15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, section 313 reporting requirements.
15.2	SARA TPQ:	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.
15.4	CERCLA Reportable Quantity:	NA
15.5	Other Federal Requirements:	None of the ingredients in this mixture are listed as Hazardous Air Pollutants (HAPs). None of the ingredients in this mixture are listed as a Priority Pollutant under the CWA. None of the ingredients in this mixture are listed as a Toxic Pollutant under the CWA.
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the 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. WHMIS Class B5, D2B (Flammable Aerosol, Other Toxic Effects).
15.7	State Regulatory Information:	Difluoroethane can be found on the following state criteria lists: MA and NJ. 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 List (WI). This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



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16.1	Other Information:	16. OTHER INFORMATION DANGER! EXTREMELY FLAMMABLE AEROSOL. PRESSURIZED CONTAINER: MAY BURST IF HEATED. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking. Provide good ventilation in process area to prevent formation of vapor. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing fume/gas/mist/vapor/spray. WARNING – ELECTRIC SHOCK HAZARD: This can will conduct electricity – keep away from all live electrical sources including battery terminals, electrical panels, and other electrical components. Failure to observe this warning may result in serious injury. Wear protective gloves, eye protection and face protection. Wash hands and exposed skin areas with soap and water thoroughly after handling. In case of fire, CO ₂ Halon (if permitted), dry chemical, or foam for extinction. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. If skin irritation occurs: get medical advice/attention. Keep Cool. Protect from sunlight. Do not expose to
16.2	Terms & Definitions:	temperatures exceeding 50 °C (122 °F). KEEP LOCKED UP. KEEP OUT OF REACH OF CHILDREN. See last page of this Safety Data Sheet.
16.3	Disclaimer:	See last page of this Safety Data Sheet. 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
RTECS No.	Registry of Toxic Effects of Chemical Substances Number
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists			
IDLH	IDLH Immediately Dangerous to Life and Health			
NOHSC	NOHSC National Occupational Health and Safety Commission (Australia)			
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:

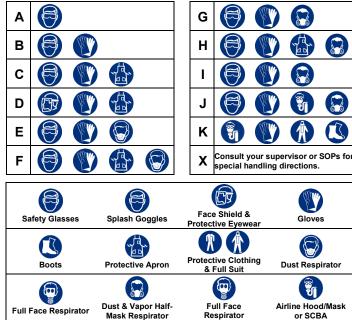
stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.		Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxveen to the body.
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HAZARDOUS 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:



OTHER STANDARD ABBREVIATIONS:

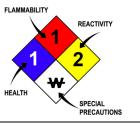
Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

Autoignition Temperature	Minimum temperature required to initiate combustion 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, by volume, that will explode or ignite in the presence of an ignition source

HAZARD RATINGS:

0	Minimal Hazard	FL
1	Slight Hazard	- FL
2	Moderate Hazard	
3	Severe Hazard	
4		
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive)
W	Use No Water	HE
ОХ	Oxidizer	
TREEOII	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 anim				
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	D _o or Lowest dose (or concentration) to cause lethal or toxic effects			
TC, TC _o , LC _{io} , & 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				
тс	Transport Canada				
EPA	U.S. Environmental Protection Agency				
DSL	SL Canadian Domestic Substance List				
NDSL	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:

\bigcirc	۲	٨		(†			
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

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

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