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

SDS Revision: 4.0

SDS Revision Date: 6/2/2016

		1.	PRODUC	T & COMI	PANY	IDENTI	FICATIO	N				
1.1	Product Name:	ı	® D-SERIE						a			
1.2	Chemical Name:	NA										
1.3	Synonyms:	NA NA										
1.4	Trade Names:	DeoxIT® D-Series, 100% Spray, (P/N D100S-2), 57g										
1.5	Product Uses & Restrictions:	Clean, Deoxi	idize & Improve E	Electrical Conta	acts & Co	nnectors						
1.6	Distributor's Name:	CAIG Labora	atories, Inc.									
1.7	Distributor's Address:	12200 Thatc	her Court, Poway	y, CA 92064-6	876 USA							
1.8	Emergency Phone:	CHEMTRI	EC: +1 (703)	527-3887 /	+1 (800	) 424-930	0 (CCN X)	(XXX)	)			
1.9	Business Phone / Fax:	+1 (800) 224	-4123									
			2 114	740001	DENT	IFICATI	ONI					
0.4	Hannad Idan GE and Com.	This manders	<b>Z. ПА</b> t is classified a	ZARDS I				NOEDO	NIC (	2000	<u>-                                    </u>	
2.1	Hazard Identification:		t is classified a the classification							3OOD:	5	
			PRESSURIZE							S EY	E	
		IRRITATION			,						_	
			n: Aerosols 3; Ey									
			ements (H): H22	9 – Pressurize	ed contair	ner; may bur	st if heated.	H320 -	<ul><li>Cau</li></ul>	ses ey	е	
		irritation.	y Statements (P)	1. D210 - Kaar	away fr	nm heat hot	surface con	rke on	an flan	20 20	۱ ا	
			<u>y Statements</u> (P) i sources. No sr									
		hands and	exposed skin	areas with	soap ar	nd warm w	ater thoroug	ghly af	ter h	andling	g.	
			-P338 – IF IN EY									
			esent and easy									
			ice/attention. P4									
			acility (TSDF).	301 - Dispose	or conte	erits/containe	er to a licerise	u iieai	mem,	Sidiay		
			,								ı	
		3. C	OMPOSITI	ON & INC	REDI	ENT INF						
						ACCILI		SURE LI	MITS IN		g/m³)	Γ
						ACGIH ppm	NOHSC ppm			OSHA		-
						ppiii	ES- ES-	ES-		ppiii		
CHEMIC	CAL NAME(S)	CAS No.					T14/4 OTT	PEAK	PEL	STEL	IDLH	OTHER
			RTECS No.	EINECS No.	%	TLV STEL						-
1,1-DIF	FLUOROETHANE (R-152A)	75-37-6	K14100000	200-866-1	60-100	1000 NA	1000 NF	NF	NA	NA	NA	
-		75-37-6 Flam. Gas 1;	K14100000 Liq. Gas; H220, H2	200-866-1 280	60-100	1000 NA	1000 NF	NF	NA			
-	FLUOROETHANE (R-152A)	75-37-6 Flam. Gas 1;	K14100000 Liq. Gas; H220, H2 RY – TRADE SEC	200-866-1 280		1				NA NA	NA NA	
		75-37-6 Flam. Gas 1; PROPRIETA	K14100000 Liq. Gas; H220, H RY – TRADE SEC RDOUS	200-866-1 280 RET	60-100 ≤ 20.0	NA NA	NF NF	NF	NA			
DEOX	T® D-SERIES, D100L	75-37-6 Flam. Gas 1; PROPRIETA NON-HAZAR	K14100000 Liq. Gas; H220, H: RY – TRADE SEC RDOUS	200-866-1 280 RET	60-100 ≤ 20.0	NA NA	NF NF	NF NF	NA NA	NA	NA	
		75-37-6 Flam. Gas 1; PROPRIETA	K14100000 Liq. Gas; H220, H: RY – TRADE SEC RDOUS  4. I	200-866-1 280 RET	60-100 ≤ 20.0 <b>D ME</b> A vomiting.	NA NA  SURES  If product	NF NF NF has been s	NF NF Swallow	NA NA ved, d	NA	NA enty	of water or milk
DEOX	T® D-SERIES, D100L	75-37-6 Flam. Gas 1; PROPRIETA NON-HAZAR	K14100000 Liq. Gas; H220, H: RY – TRADE SEC RDOUS  4. If ingested, do IMMEDIATELY	200-866-1 280 RET FIRST All o not induce	60-100 ≤ 20.0 MEA  vomiting.  ti s vomi	NA NA  SURES  If producting, continu	NF NF  has been se to offer wat	NF NF Swallow	NA NA /ed, d	NA rink pl	NA enty jive wa	of water or milk
DEOX	T® D-SERIES, D100L	75-37-6 Flam. Gas 1; PROPRIETA NON-HAZAR	K14100000 Liq. Gas; H220, H: RY – TRADE SEC RDOUS  4. If ingested, do IMMEDIATELY unconscious pe	200-866-1 280 RET  FIRST All o not induce of the patient erson. Contact	60-100  ≤ 20.0  D MEA  vomiting. It is vomit the nea	NA NA  SURES  If producting, continurest Poison	NF NF  has been se to offer wat Control Center	NF NF Swallow	NA NA Ved, d nilk. N cal em	NA rink pl	NA enty ive wa	of water or milk ater or milk to an nber. Provide an
DEOX	T® D-SERIES, D100L	75-37-6 Flam. Gas 1; PROPRIETA NON-HAZAR	K14100000 Liq. Gas; H220, H: RY – TRADE SEC RDOUS  4. If ingested, do IMMEDIATELY unconscious pe	200-866-1 280 RET  FIRST All o not induce of the patient erson. Contact	60-100  ≤ 20.0  D MEA  vomiting. It is vomit the nea	NA NA  SURES  If producting, continurest Poison	NF NF  has been se to offer wat Control Center	NF NF Swallow	NA NA Ved, d nilk. N cal em	NA rink pl	NA enty ive wa	of water or milk
DEOX	T® D-SERIES, D100L	75-37-6 Flam. Gas 1; PROPRIETA NON-HAZAR	K14100000 Liq. Gas; H220, H2 RY - TRADE SEC RDOUS  4. If ingested, do IMMEDIATELY unconscious pe estimate of the swallowed. Splashes are r	PIRST All o not induce of time at which the likely; how	60-100  ≤ 20.0  D MEA  vomiting.  It is vomit the near the mean t	NA NA  NA NA  ASURES  If producting, continurest Poison laterial was product gets	NF NF  has been see to offer wat Control Center ingested and in the eyes,	NF N	NA  NA  Ved, d  nilk. N  cal em  amoun  with co	na rink pl	enty of the sub-	of water or milk ater or milk to an ober. Provide an ostance that was unts of lukewarm
DEOX	T® D-SERIES, D100L	75-37-6 Flam. Gas 1; PROPRIETA NON-HAZAR	K14100000 Liq. Gas; H220, H2 RY – TRADE SEC RDOUS  If ingested, do IMMEDIATELY unconscious pe estimate of the swallowed. Splashes are r water for at lea	PIRST All on not induce of time at which the patient entire time at which the patient on the likely; how st 15 minutes	60-100  ≤ 20.0  D MEA  vomiting.  It is vomit the near the mean t	NA NA  NA NA  ASURES  If producting, continurest Poison laterial was product gets	NF NF  has been see to offer wat Control Center ingested and in the eyes,	NF N	NA  NA  Ved, d  nilk. N  cal em  amoun  with co	na rink pl	enty of the sub-	of water or milk ater or milk to an nber. Provide an estance that was
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DEOX	T® D-SERIES, D100L	75-37-6 Flam. Gas 1; PROPRIETA NON-HAZAR	K14100000 Liq. Gas; H220, H: RY – TRADE SEC RDOUS  4. If ingested, do IMMEDIATELY unconscious pe estimate of the swallowed. Splashes are r water for at lea Get medical att Wash thorough	PIRST AII o not induce If the patienterson. Contacte time at which the patienters of	on the management of the mana	NA NA  NA NA  ASURES  If producting, continurest Poison laterial was per and lower the control of the control o	NF NF  has been set offer wat Control Center ingested and in the eyes, er lids, occasionatct, imme	NF N	NA  NA  Ved, d nilk. N cal em amoun  with co If irrit  flush:	NA rink plever gergence tof the opious ation p	enty of the property of the plenty of the pl	of water or milk ater or milk to an ober. Provide an ostance that was unts of lukewarms repeat flushing.
DEOX	T® D-SERIES, D100L	75-37-6 Flam. Gas 1; PROPRIETA NON-HAZAR  Ingestion:	K14100000 Liq. Gas; H220, H: RY – TRADE SEC RDOUS  4. If ingested, do IMMEDIATELY unconscious pe estimate of the swallowed. Splashes are r water for at lea Get medical att Wash thorough	FIRST AII o not induce of the patient of the patien	on the management of the mana	NA NA  NA NA  ASURES  If product ting, continurest Poison naterial was per and lower the content of the content	NF NF  has been set offer wat Control Center ingested and in the eyes, er lids, occasionatct, imme	NF N	NA  NA  Ved, d nilk. N cal em amoun  with co If irrit  flush:	NA rink plever gergence tof the opious ation p	enty of the property of the plenty of the pl	of water or milk ater or milk to an nber. Provide an stance that was unts of lukewarm s repeat flushing.
DEOX	T® D-SERIES, D100L	75-37-6 Flam. Gas 1; PROPRIETA NON-HAZAR  Ingestion:	K14100000 Liq. Gas; H220, H2 RY – TRADE SEC RDOUS  If ingested, do IMMEDIATELY unconscious pe estimate of the swallowed. Splashes are r water for at lea Get medical att Wash thorough least 15 minute swelling persist Remove victim	PIRST All on not induce of time at which the patient at which the patient at the	on the management of the mana	NA NA  NA NA  ASURES  If product ting, continurest Poison paterial was product gets per and lower the confederation of the confederatio	NF NF  has been set offer wat Control Centeringested and in the eyes, er lids, occasi contact, immediate gently ward ficult, adminis	NF NF Swallow er or mer or loo d the a flush nonally. ediately ming af	NA  NA  Ved, d nilk. N cal em amoun with co If irrit flush:	rink pl lever g ergence t of th opious ation p	enty of pive was amoust amoust the pler of the firrite.	of water or milk ater or milk to an ober. Provide an ostance that was unts of lukewarm is repeat flushing. Inty of water for at eation, redness or
DEOX	T® D-SERIES, D100L  First Aid:	75-37-6   Flam. Gas 1;   PROPRIETA   NON-HAZAR   Ingestion:   Eyes:   Skin:   Inhalation:	K14100000 Liq. Gas; H220, H2 RY – TRADE SEC RDOUS  If ingested, do IMMEDIATELY unconscious pe estimate of the swallowed. Splashes are r water for at lea Get medical att Wash thorough least 15 minute swelling persist Remove victim artificial respira	PIRST All on not induce of time at which the patient at which the patient at the	on the manner of the manner o	NA NA  NA NA  SURES  If product ting, continurest Poison paterial was product gets per and lower in case of conecessary, the mediately. The product gets per and lower in case of conecessary, the mediately. The preathing different in the product gets per and lower in case of conecessary, the preathing different in the product gets in the product	NF NF  has been set to offer wat Control Center in the eyes, er lids, occasi contact, immediate gently ward ficult, administrational actions and the control contact in the eyes, er lids, occasi contact, immediate gently ward ficult, administrational actions and the control of	NF NF Swallow er or mer or lood the afflush vonally.  Indicately ming affice ter oxyettention	NA  NA  Ved, d nilk. N cal em amoun with co If irrit flush:	rink pl lever g ergence t of th opious ation p	enty of pive was amoust amoust the pler of the firrite.	of water or milk ater or milk to an ober. Provide an ostance that was unts of lukewarm is repeat flushing. Inty of water for at eation, redness or
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DEOXI	T® D-SERIES, D100L  First Aid:	T5-37-6   Flam. Gas 1;   PROPRIETA   NON-HAZAR   Ingestion:   Eyes:   Skin:   Inhalation:   Ingestion:   Eyes:   Eyes:   Skin:   Ingestion:   Eyes:   E	K14100000 Liq. Gas; H220, H2 RY – TRADE SEC RDOUS  If ingested, do IMMEDIATELY unconscious pe estimate of the swallowed. Splashes are r water for at lea Get medical att Wash thorough least 15 minute swelling persist Remove victim artificial respira If product is sw Moderately irrit watering.	PIRST All onot induce of the patient at which the patient at which the patient at which the patient at the patient at which the patient at which the patient at the patient	on the management of the manag	NA NA  NA NA  ASURES  If product ting, continurest Poison paterial was product gets per and lower and lowe	NF NF  has been set to offer wat Control Center in the eyes, er lids, occasi contact, immedice gently ward ficult, administrational and and/or diary erexposure in the eyes, er lids, occasi contact, immedice gently ward ficult, administrational and and and and are reconstructed in the eyes, er lids, occasional contact, immedical and gently ward ficult, administrational and and and are reconstructed in the eyes, er lids occasional and and are reconstructed in the eyes, er lids occasional and and are reconstructed in the eyes, er lids occasional and are reconstructed in the eyes, er lids occasional and are reconstructed in the eyes, er lids occasional and are reconstructed in the eyes, er lids occasional and are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, even and eyes are reconstructed in the eyes, eyes are reconstructed in the eyes, eyes are reconstructed in t	NF NF Swallow er or mer or lood the afflush vonally. Idiately ming affecter oxyettention rhea. Inay income the swallow income the swallow expenses of	NA  NA  Ved, d nilk. N cal em amoun  with co If irrit flush s ffected gen. I n.	rink place of the propious ation possion with area.	enty of the substitution o	of water or milk ater or milk to an ober. Provide an ostance that was unts of lukewarm is repeat flushing. Into the form at ation, redness or tops give
DEOXI	T® D-SERIES, D100L  First Aid:	75-37-6   Flam. Gas 1;   PROPRIETA   NON-HAZAR   Ingestion:   Eyes:   Skin:   Inhalation:   Ingestion:	K14100000 Liq. Gas; H220, H2 RY – TRADE SEC RDOUS  If ingested, do IMMEDIATELY unconscious pe estimate of the swallowed. Splashes are r water for at lea Get medical att Wash thorough least 15 minute swelling persist Remove victim artificial respira If product is sw Moderately irrit watering. May be irritatin	PIRST AII o not induce of the patient of the patien	on the management of the manag	NA NA  NA NA  ASURES  If product ting, continurest Poison paterial was product gets per and lower and lowe	NF NF  has been set to offer wat Control Center in the eyes, er lids, occasi contact, immedice gently ward ficult, administrational and and/or diary erexposure in the eyes, er lids, occasi contact, immedice gently ward ficult, administrational and and and and are reconstructed in the eyes, er lids, occasional contact, immedical and gently ward ficult, administrational and and and are reconstructed in the eyes, er lids occasional and and are reconstructed in the eyes, er lids occasional and and are reconstructed in the eyes, er lids occasional and are reconstructed in the eyes, er lids occasional and are reconstructed in the eyes, er lids occasional and are reconstructed in the eyes, er lids occasional and are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, even and eyes are reconstructed in the eyes, eyes are reconstructed in the eyes, eyes are reconstructed in t	NF NF Swallow er or mer or lood the afflush vonally. Idiately ming affecter oxyettention rhea. Inay income the swallow income the swallow expenses of	NA  NA  Ved, d nilk. N cal em amoun  with co If irrit flush s ffected gen. I n.	rink place of the propious ation possion with area.	enty of the substitution o	of water or milk ater or milk to an ober. Provide an ostance that was unts of lukewarm is repeat flushing. Into the form at ation, redness or tops give
DEOX	T® D-SERIES, D100L  First Aid:	T5-37-6   Flam. Gas 1;   PROPRIETA   NON-HAZAR   Ingestion:   Eyes:   Skin:   Inhalation:   Eyes:   Skin:   Skin:   Skin:	K14100000 Liq. Gas; H220, H2 RY – TRADE SEC RDOUS  If ingested, do IMMEDIATELY unconscious pe estimate of the swallowed. Splashes are r water for at lea Get medical att Wash thorough least 15 minute swelling persist Remove victim artificial respira If product is sw Moderately irrit watering. May be irritatin some sensitive	PIRST All onot induce of the patient at which the patient at which the patient at which the patient at the pati	on the management of the manag	NA NA  NA NA  ASURES  If product ting, continurest Poison paterial was product gets per and lower and lowe	NF NF  has been set to offer wat Control Center in the eyes, er lids, occasi contact, immedice gently ward ficult, administrational and and/or diary erexposure in the eyes, er lids, occasi contact, immedice gently ward ficult, administrational and and and and are reconstructed in the eyes, er lids, occasional contact, immedical and gently ward ficult, administrational and and and are reconstructed in the eyes, er lids occasional and and are reconstructed in the eyes, er lids occasional and and are reconstructed in the eyes, er lids occasional and are reconstructed in the eyes, er lids occasional and are reconstructed in the eyes, er lids occasional and are reconstructed in the eyes, er lids occasional and are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, er lids occasional and eyes are reconstructed in the eyes, even and eyes are reconstructed in the eyes, eyes are reconstructed in the eyes, eyes are reconstructed in t	NF NF Swallow er or mer or lood the afflush vonally. Idiately ming affecter oxyettention rhea. Inay income the swallow income the swallow expenses of	NA  NA  Ved, d nilk. N cal em amoun  with co If irrit flush s ffected gen. I n.	rink place of the propious ation possion with area.	enty of the substitution o	of water or milk ater or milk to an ober. Provide an ostance that was unts of lukewarm is repeat flushing. Into the form at ation, redness or tops give
DEOXI	T® D-SERIES, D100L  First Aid:	T5-37-6   Flam. Gas 1;   PROPRIETA   NON-HAZAR   Ingestion:   Eyes:   Skin:   Inhalation:   Eyes:   Skin:   Inhalation:   Eyes:   Skin:   Inhalation:   Inhalation:   Eyes:   Skin:   Inhalation:   Eyes:   Skin:   Inhalation:   Eyes:   Ey	K14100000 Liq. Gas; H220, H2 RY – TRADE SEC RDOUS  If ingested, do IMMEDIATELY unconscious pe estimate of the swallowed. Splashes are r water for at lea Get medical att Wash thorough least 15 minute swelling persist Remove victim artificial respira If product is sw Moderately irrit watering. May be irritatin some sensitive None expected	PIRST All onot induce of the patient at which the patient at which the patient at which the patient at the patient at the patient at which the patient at th	on the management of the manag	NA NA  NA NA  ASURES  If product ting, continurest Poison paterial was product gets per and lower and lowe	NF NF  has been set offer wat Control Centeringested and in the eyes, er lids, occasionate, immedical and	NF NF Swallow er or mer or lood the afflush vonally. Idiately ming affecter oxyettention rhea. Inay income the swallow income the swallow expenses of	NA  NA  Ved, d nilk. N cal em amoun  with co If irrit flush s ffected gen. I n.	rink place of the propious ation possion with area.	enty of the substitution o	of water or milk ater or milk to an ober. Provide an ostance that was unts of lukewarm is repeat flushing. Into the form at ation, redness or tops give
4.1 4.2	T® D-SERIES, D100L  First Aid:  Effects of Exposure:	T5-37-6   Flam. Gas 1;   PROPRIETA   NON-HAZAR     Ingestion:   Eyes:   Skin:   Inhalation:   Eyes:   Skin:   Inhalation:   Ingestion:   Ingestion	K14100000 Liq. Gas; H220, H2 RY – TRADE SEC RDOUS  If ingested, do IMMEDIATELY unconscious pe estimate of the swallowed. Splashes are r water for at lea Get medical att Wash thorough least 15 minute swelling persist Remove victim artificial respira If product is sw Moderately irrit watering. May be irritatin some sensitive None expected Nausea, intestii	PIRST AII o not induce of the patient of the patien	on the management of the manag	NA NA  NA NA  ASURES  If product ting, continurest Poison paterial was product gets per and lower and lowe	NF NF  has been set offer wat Control Centeringested and in the eyes, er lids, occasi contact, immedical and	NF NF Swallow er or mer or lood the afflush vonally. Indicately ming affecter oxyettention rhea. In may increase eaction	NA  NA  Ved, d nilk. N cal em amoun  with co If irrit flush s ffected gen. I n.	rink place of the propious ation possion with area.	enty of the substitution o	of water or milk ater or milk to an ober. Provide an ostance that was unts of lukewarm is repeat flushing. Into the form at ation, redness or tops give
4.1 4.2	T® D-SERIES, D100L  First Aid:  Effects of Exposure:	T5-37-6   Flam. Gas 1;   PROPRIETA   NON-HAZAR   Ingestion:   Eyes:   Skin:   Inhalation:   Eyes:   Skin:   Inhalation:   Eyes:   Skin:   Inhalation:   Inhalation:   Eyes:   Skin:   Inhalation:   Eyes:   Skin:   Inhalation:   Eyes:   Ey	K14100000 Liq. Gas; H220, H2 RY – TRADE SEC RDOUS  If ingested, do IMMEDIATELY unconscious pe estimate of the swallowed. Splashes are r water for at lea Get medical att Wash thorough least 15 minute swelling persist Remove victim artificial respira If product is sw Moderately irrit watering. May be irritatin some sensitive None expected Nausea, intestii Overexposure i	PIRST All onot induce of the patient at which the patient at which the patient at which the patient at the pati	on the management of the manag	NA NA  NA NA  ASURES  If product ting, continurest Poison paterial was product gets per and lower and lowe	NF NF  has been set offer wat Control Center in the eyes, er lids, occasionated, immedical and and and and and and and are rerexposure reallergic skin retheal.  and watering.	NF NF Swallow er or mer or lood the afflush vonally. Indiately ming afficter oxyettention rhea. In may increase eaction	NA  NA  Ved, d nilk. N cal em amoun  with co If irrit flush s ffected gen. I n.  clude r s (e.g.	rink pl lever g ergence t of th opious ation p skin with area.	enty of the substitution o	of water or milk ater or milk to an ober. Provide an ostance that was unts of lukewarm is repeat flushing. Inty of water for at ation, redness or tops give ing, irritation and elts, dermatitis) in
4.1 4.2	T® D-SERIES, D100L  First Aid:  Effects of Exposure:	T5-37-6   Flam. Gas 1;   PROPRIETA   NON-HAZAR   NON-HAZAR   Ingestion:   Eyes:   Skin:   Inhalation:   Eyes:   Skin:   Inhalation:   Ingestion:   Eyes:   Skin:   Inhalation:   Eyes:   Skin:   Ingestion:   Eyes:   Syes:   Eyes:   Eyes:	K14100000 Liq. Gas; H220, H2 RY – TRADE SEC RDOUS  If ingested, do IMMEDIATELY unconscious pe estimate of the swallowed. Splashes are r water for at lea Get medical att Wash thorough least 15 minute swelling persist Remove victim artificial respira If product is sw Moderately irrit watering. May be irritatin some sensitive None expected Nausea, intestii Overexposure i Symptoms of si	PIRST All onot induce of the patient	once. If I cause na yes. Syntest continger in the product if the product in the p	In case of conecessary, to mediately. Dreathing different metal was a product gets per and lower	NF NF  has been set offer wat Control Centeringested and in the eyes, er lids, occasionated, immediate gently warm ficult, administrative medical and and/or diarrer verexposure reallergic skin received.	NF NF Swallow er or mer or lood the afflush vonally. Indicately ming afficter oxyettention rhea. In any increase and incre	NA  NA  Ved, d nilk. N cal em amoun  with co If irrit flush s fected gen. I n.  clude r s (e.g.	rink place of the popious ation position position position position position position with a real. If breattern positions area, rashed to of affine positions are also be a fine of affine position position positions are a fine position po	enty of the substitution o	of water or milk ater or milk to an obser. Provide an ostance that was unts of lukewarm is repeat flushing. Inty of water for at ation, redness or tops give ing, irritation and obts, dermatitis) in areas. Frostbite
4.1 4.2	T® D-SERIES, D100L  First Aid:  Effects of Exposure:  Symptoms of Overexposure:	T5-37-6   Flam. Gas 1;   PROPRIETA   NON-HAZAR   NON-HAZAR   Ingestion:   Eyes:   Skin:   Inhalation:   Eyes:   Skin:   Inhalation:   Ingestion:   Eyes:   Skin:   Inhalation:   Eyes:   Skin:   Ingestion:   Eyes:   Syes:   Eyes:   Eyes:	K14100000 Liq. Gas; H220, H2 RY – TRADE SEC RDOUS  If ingested, do IMMEDIATELY unconscious pe estimate of the swallowed. Splashes are r water for at lea Get medical att Wash thorough least 15 minute swelling persist Remove victim artificial respira If product is sw Moderately irrit watering. May be irritatin some sensitive None expected Nausea, intestii Overexposure i Symptoms of si	PIRST All onot induce of the patient	once. If I cause na yes. Syntest continger in the product if the product in the p	In case of conecessary, to mediately. Dreathing different metal was a product gets per and lower	NF NF  has been set offer wat Control Centeringested and in the eyes, er lids, occasionated, immediate gently warm ficult, administrative medical and and/or diarrer verexposure reallergic skin received.	NF NF Swallow er or mer or lood the afflush vonally. Indicately ming afficter oxyettention rhea. In any increase and incre	NA  NA  Ved, d nilk. N cal em amoun  with co If irrit flush s fected gen. I n.  clude r s (e.g.	rink place of the popious ation position position position position position position with a real. If breattern positions area, rashed to of affine positions are also be a fine of affine position position positions are a fine position po	enty of the substitution o	of water or milk ater or milk to an ober. Provide an ostance that was unts of lukewarm is repeat flushing. Into the form at ation, redness or tops give
4.1 4.2	T® D-SERIES, D100L  First Aid:  Effects of Exposure:	T5-37-6   Flam. Gas 1;   PROPRIETA   NON-HAZAR   NON-HAZAR   Ingestion:   Eyes:   Skin:   Inhalation:   Eyes:   Skin:   Inhalation:   Ingestion:   Eyes:   Skin:   Inhalation:   Eyes:   Skin:   Indestion:   Eyes:   Skin:   Indestion:   Eyes:   Skin:   Ingestion:   Eyes:   Skin:   Indestion:   Eyes:   Skin:   Indestion:   Eyes:   Skin:   Ingestion:   Eyes:   Skin:   Eyes:   Skin:   Eyes:   Skin:   Eyes:	K14100000 Liq. Gas; H220, H2 RY – TRADE SEC RDOUS  If ingested, do IMMEDIATELY unconscious pe estimate of the swallowed. Splashes are r water for at lea Get medical att Wash thorough least 15 minute swelling persist Remove victim artificial respira If product is sw Moderately irrit watering. May be irritatin some sensitive None expected Nausea, intesti Overexposure i Symptoms of s like symptoms. individuals.	PIRST AII o not induce of the patient at which the patient at which the patient at which the patient at the pat	on the management of the product of	NA NA  NA NA  ASURES  If producting, continurest Poison elaterial was per and lower an	NF NF  That has been see to offer wat Control Center ingested and in the eyes, er lids, occasionate, immedical and and/or diarry erexposure reallergic skin reactions.	NF NF Swallow er or mer or lood the a flush wonally. In the condition of t	NA  NA  Ved, d nilk. N cal em amoun  with co If irrit flush s ffected gen. I n.  clude r s (e.g.	rink plever gergence tof the prious ation peskin will area. If breathed the prious at the prior at the	enty of the substitution o	of water or milk ater or milk to an obser. Provide an ostance that was unts of lukewarm is repeat flushing. Inty of water for at ation, redness or tops give ing, irritation and obts, dermatitis) in areas. Frostbite



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 4.0 SDS Revision Date: 6/2/2016 4. FIRST AID MEASURES - cont'd 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. Medical Conditions 4.7 Pre-existing dermatitis, other skin conditions, and disorders of the **HEALTH** Aggravated by Exposure: target organs (eyes, skin, and respiratory system). **FLAMMABILITY** 2 2 PHYSICAL HAZARDS PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES Fire & Explosion Hazards: Level 1 Aerosol (NFPA 30B). Aerosols may burst at temperatures above 120 °F. Cool uninvolved containers to prevent possible bursting. Aerosols may be projectile hazards when bursting. If aerosols are bursting, stay clear until bursting is complete. If involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO, Hydrogen Fluoride). 5.2 Extinguishing Methods: Water, Foam, CO<sub>2</sub>, Dry Chemical. Use water spray to cool unopened containers. 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. ACCIDENTAL RELEASE MEASURES 6.1 Spills: 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. 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) 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. Sweep up material using non-sparking materials (e.g., plastic brooms, shovels, dustpans) and place into a metal or plastic container. 7. HANDLING & STORAGE INFORMATION 7.1 Work & Hygiene Practices: Do not eat, drink or smoke when handling this product. Contents under pressure. Handle as to avoid puncturing container(s). When used as intended, no additional protective equipment is necessary. Use chemical goggles if eye contact is possible. Wash unintentional residues with soap and warm water. 7.2 Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Avoid temperatures above 120 °F. Keep away from incompatible substances. Protect containers from physical damage. To avoid unintentional spraying keep cap in place when not in use. Special Precautions: 7.3 Clean all spills promptly. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION Exposure Limits: ACGIH NOHSC OSHA OTHER 8 1 ppm (mg/m3) CHEMICAL NAME(S) TLV STEL ES-TWA ES-STEL FS-PFAK PFI STEL IDI H DIFLUOROETHANE (R-152A) 1000 NA 1000 NF NF NA NA 8.2 Ventilation & Engineering General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). 8.3 Respiratory Protection: 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 Eve Protection: 8.4 Avoid eye contact. None required under normal conditions of use. Safety glasses could be used when handling or using large quantities of this product.



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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., ≥ 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:	Aerosol. Light red liquid.		
9.2	Odor:	Ethereal/hydrocarbon odor		
9.3	Odor Threshold:	NA NA		
9.4	pH:	NA NA		
9.5	Melting Point/Freezing Point:	NA NA		
9.6	Initial Boiling Point/Boiling	-25 °C @ 760 mmHg		
9.7	Range: Flashpoint:	NA		
9.8	Upper/Lower Flammability	1,1-Difluoroethane: LEL: 4.32 % v/v / UEL: 20.2 % v/v		
9.9	Limits: Vapor Pressure:			
9.10	Vapor Density:	74 psig (5.1 bar) @ 20 °C		
9.11	Relative Density:	1,1-Difluoroethane: 2.3 (air = 1.0)		
9.12	Solubility:	0.884 – liquid concentrate		
9.12	Partition Coefficient (log Pow):	Not soluble in water		
9.13	Autoignition Temperature:	NA		
9.14	Decomposition Temperature:	1,1-Difluoroethane: 455 °C (851 °F)		
9.16	Viscosity:	NA		
9.16	Other Information:	5.4-7.5 cSt @ 104 °F		
9.17	Other information:	VOC: 1,1-Difluoroethane - exempt per 40 CFR 51.100		
		10. STABILITY & REACTIVITY		
10.1	Stability:	Stable under normal conditions; unstable with heat or contamination.		
10.2	Hazardous Decomposition Products:	Change in color signifies exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Discard solution.		
10.3	Hazardous Polymerization:	Will not occur.		
10.4	Conditions to Avoid:	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, is		
11.2	TOXICITY Data.	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:	No.		
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.		
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.		
	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:	NE NE		
11.9	Physician Recommendations:	Treat symptomatically.		
		42 ECOLOCICAL INFORMATION		
12.4	Environmental Ctability	12. ECOLOGICAL INFORMATION		
12.1	Environmental Stability:	There is no specific data available for this product.		
12.2	Effects on Plants & Animals:  Effects on Aquatic Life:	There is no specific data available for this product.  There is no specific data available for this product.		
12.0	250to on Aquatio Elle.	There is no specific data available for this product.		



Other Requirements:

NA

## SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 6/2/2016 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: Disposal should be in accordance with local, state, provincial and federal regulations 13 2 Special Considerations: 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. 49 CFR (GND): UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L); or CONSUMER COMMODITY, ORM-D (IP VOL ≤ 0.5 L) - until 12/31/2020 14.2 IATA (AIR): UN1950, AEROSOLS, NON-FLAMMABLE, 2.2 (LTD QTY, IP VOL ≤ 0.5 L); or **₹** ID8000, CONSUMER COMMODITY, ORM-D (IP VOL ≤ 0.82 L) IMDG (OCN): 14.3 UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L) TDGR (Canadian GND): UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L); or MARK PACKAGE "LIMITED QUANTITY," "LTD QTY," or "QUANT LTÉE" or "QUANTITÉ LIMITÉE" ADR/RID (EU): UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L) SCT (MEXICO): 14.6 UN1950, AEROSOLES, 2.2 (CANT. LTDA., IP VOL ≤ 1.0 L) ADGR (AUS): UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L) 15. REGULATORY INFORMATION 15.1 SARA Reporting This product does not contain any substances subject to SARA Title III, section 313 reporting requirements. Requireme 15.2 SARA Threshold Planning There are no specific Threshold Planning Quantities for the components of this product. Quantity: TSCA Inventory Status: 15.3 The components of this product are listed on the TSCA Inventory. **CERCLA Reportable Quantity** 15.4 15.5 Other Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR Subchapter G. (Cosmetics). 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 D2B (Flammable Aerosol, Other Toxic Effects) 15.7 State 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 (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).



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		16. OTHER INFORMATION			
16.1	Other Information:	WARNING! FLAMMABLE AEROSOL. 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 spray on open flames or other ignition source. Do not pierce or burn, even after use. Wash hands and exposed skin areas with soap and warm water thoroughly after handling. 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 advice/attention. Protect from sunlight. Do not expose to temperatures exceeding 50 °C (122 °F). Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF). 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			
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

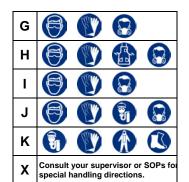
### HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



#### PERSONAL PROTECTION RATINGS:

Α			
В			
С	(E)	THE THE	
D		THE STATE OF THE S	
E			
F			















Dust & Vapor Half-Mask Respirator



Airline Hood/Mask or SCBA

#### OTHER STANDARD ABBREVIATIONS:

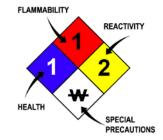
ML	Maximum Limit		
mg/m3	milligrams per cubic meter		
NA	Not Available		
ND	Not Determined		
NE	Not Established		
NF	Not Found		
NR	No Results		
ppm	parts per million		
SCBA	Self-Contained Breathing Apparatus		

### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:					
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition				
LEL	·				
	explode or ignite in the presence of an ignition source				
UEL					
	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
ОХ	Oxidizer
TREFOIL	Radioactive



#### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC <sub>50</sub>	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD <sub>Io</sub>	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD <sub>Io</sub> , LD <sub>Io</sub> , & LD <sub>o</sub> or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC <sub>o</sub> , LC <sub>lo</sub> , & LC <sub>o</sub>	
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	<b>(2)</b>	<b>(2)</b>		$\odot$	<b>®</b>		
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:

1		M	*		×	X	×
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

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