

Page 1 of 6 **SW-2716** 

	ared to OSHA, ACC, ANS	31, NOTISC, W	HIVIIS, GHS &	1272/2000/EC	otanuaru		000	Revisio		0	л сча	evisio	on Dat	te: 4/17/2019
		1	PRODUC											
1.1	Product Name:								IIUN					
		VOLUMI	ZING SPF		Y 15, 4	1.8%		C						
1.2	Chemical Name:	Aerosol												
1.3	Synonyms:	SW-2716												
1.4	Trade Names:		pray Clay 15 ,	41.8% VOC										
1.5	Product Use:		ire Hair Spray											
1.6	Distributor's Name:		ging of CA, Inc											
1.7	Distributor's Address:	5165 "G" Stre	et, Chino CA 9	1710 USA										
1.8	Emergency Phone:	CHEMTRE	C: +1 (703)	527-3887	/ +1 (80	0) 424	-930(	) (CCI	N 2010	8)				
1.9	Business Phone / Fax:	+1 (909) 628-	4707 / +1 (909	) 591-8916										
			2 H	AZARDS		TIFIC	ΔΤΙ	ON						
2.1	Hazard Identification:	This product							FROUS	GOO	DS a	ccord	ina to	the classification
		criteria of NO WARNING! IRRITATION.	HSC: 1088 (20 FLAMMABLE	04) and ADG AEROSOL.	Code (Au	stralia).							•	CAUSES EY
2.2	Label Elements:		<u>ments</u> (H): H2		hla aavaa		<u> </u>						:4	
		Precautionary other ignition P251 – Do no P264 – Wash Wear protecti several minut – If eye irrita clothing and Chemical, Ha cool. P410+R	D – Causes eye <u>v Statements</u> (F sources. No so to pierce or bur hands and ex ive gloves/eye es. Remove c ation persists wash it before lon (if authoriz P412 – Protec Dispose of c	P): P210 – Kee smoking. P21 n, even after of posed skin ar wearP305+P3 ontact lenses, get medical a ereuse. P37 ed), to extingut t from sunligh	1 – Do no use. P26 eas with s 51+P338 if present advice/atte 0+P378 – iish. P403 t. Do not	ot spray I – Avoi coap and – IF IN and ea ention. - In cas 3+P235 expose	on op d brea d warn EYES sy to o P362 se of f – Stor to ter	en flam thing fui n thorou S: Rinse do. Con +P364 ire: Use e in a w nperatui	e or othe me/gas/n ghly afte cautious tinue rins – Take Water, ell-ventils res exce	er ignit nist/va r hand sly wit sing. I off co Foam ated p eding	tion s apors/ dlingP th wa P337- ontam n, CO place. 50 °C	ource /spray 280 - ter fo +P31: 	e. /. or 3 d y 2	
		(TSDF).	Dispose of c	Unterns/Contai		licensed	liea	ment, s	lorage o	i uisp	0581	acint	у	•
2.3	Other Warnings:	· · /	F REACH OF	CHILDREN.										
		<u> </u>	OMPOSI	ION & IN	IGRED	<u>PIENI</u>	INF	ORN						
							<u></u>		EXPOSUR				/m³)	
						AC	GIH	r	IOHSC			OSHA		
						nr						nnm		
						pr	/111		ppm FS- F	-S-		ppm		•
HEMI	CAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	pr TLV		ES-TWA	ES- E	ES- EAK F		ppm STEL	IDLH	OTHER
		CAS No. 75-37-6	RTECS No. KI4100000	EINECS No. 200-866-1	% 40-70			<b>ES-TWA</b> 1000	ES- E STEL PE	AK F	PEL		IDLH NA	OTHER
	CAL NAME(S) OROETHANE (R-152a)	75-37-6 Flam. Gas 1; I	KI4100000 H220	200-866-1	40-70	<b>TLV</b> 1000	STEL NA	1000	ES- STEL PE NF N	EAK F	PEL NA	STEL NA	NA	
IFLU	OROETHANE (R-152a)	75-37-6 Flam. Gas 1; I 64-17-5	KI4100000 H220 KQ6300000	200-866-1	40-70	<b>TLV</b> 1000	STEL NA	1000	ES- E STEL PE	EAK F	PEL NA	STEL NA	NA	
IFLU		75-37-6 Flam. Gas 1; I 64-17-5 Flam.Liq.2; H2	KI4100000 H220 KQ6300000 225	200-866-1 200-578-6	40-70 20-30	<b>TLV</b> 1000	<b>STEL</b> NA 3000	1000 1000	ES- E STEL PE NF N 1800 N	IF 1	<b>PEL</b> NA	<b>STEL</b> NA 1900	NA 3300	
DIFLU THAI	OROETHANE (R-152a)	75-37-6 Flam. Gas 1; I 64-17-5 Flam.Liq.2; H2 115-10-6	KI4100000 H220 KQ6300000 225 NA	200-866-1 200-578-6 204-065-8	40-70	<b>TLV</b> 1000	STEL NA	1000	ES- E STEL PE NF N 1800 N	IF 1	<b>PEL</b> NA	STEL NA	NA	
DIFLU THAI	OROETHANE (R-152a) NOL (SD ALCOHOL 40B) THYL ETHER	75-37-6 Flam. Gas 1; I 64-17-5 Flam.Liq.2; H2 115-10-6 Flam. Gas 1; I	KI4100000 H220 KQ6300000 225 NA Press. Gas; H220	200-866-1 200-578-6 204-065-8	40-70 20-30 10-20	TLV 1000 1000 NA	<b>STEL</b> NA 3000 NA	1000 1000 400	ES- STEL         PP           NF         N           1800         N           760         N	EAK F NF 1 NF 1	PEL NA 0000	STEL NA 1900 NA	NA 3300 NA	
DIFLU THAI	OROETHANE (R-152a) NOL (SD ALCOHOL 40B)	75-37-6 Flam. Gas 1; I 64-17-5 Flam.Liq.2; H2 115-10-6	KI4100000 H220 KQ6300000 225 NA	200-866-1 200-578-6 204-065-8	40-70 20-30	<b>TLV</b> 1000	<b>STEL</b> NA 3000	1000 1000	ES- STEL         PP           NF         N           1800         N           760         N	EAK F NF 1 NF 1	PEL NA 0000	<b>STEL</b> NA 1900	NA 3300	
DIFLU THAI DIMET P/VA	OROETHANE (R-152a) NOL (SD ALCOHOL 40B) THYL ETHER	75-37-6 Flam. Gas 1; I 64-17-5 Flam.Liq.2; H2 115-10-6 Flam. Gas 1; I	KI4100000 H220 KQ6300000 225 NA Press. Gas; H220	200-866-1 200-578-6 204-065-8	40-70 20-30 10-20	TLV 1000 1000 NA	<b>STEL</b> NA 3000 NA	1000 1000 400	ES- STEL         PE           NF         N           1800         N           760         N           NF         N	IF 1 IF 1 IF 1 IF 1	PEL NA 0000 <sup>-</sup> NA	STEL NA 1900 NA	NA 3300 NA	
DIFLU THAI DIMET P/VA	OROETHANE (R-152a) NOL (SD ALCOHOL 40B) THYL ETHER	75-37-6 Flam. Gas 1; I 64-17-5 Flam.Liq.2; H2 115-10-6 Flam. Gas 1; I 25086-89-9 13475-82-6	KI4100000 H220 KQ6300000 225 NA Press. Gas; H220 NA	200-866-1 200-578-6 204-065-8 NA 236-757-0	40-70 20-30 10-20 1-5 0.1-1	TLV           1000           1000           NA           NA           NA	STEL NA 30000 NA NA	1000 1000 400 NF	ES- STEL         PE           NF         N           1800         N           760         N           NF         N	IF 1 IF 1 IF 1 IF 1	PEL NA 0000 <sup>-</sup> NA	STEL NA 1900 NA NA	NA 3300 NA NA	
DIFLU THAI DIMET (P/VA	OROETHANE (R-152a) NOL (SD ALCOHOL 40B) THYL ETHER COPOLYMER DDECANE	75-37-6 Flam. Gas 1; I 64-17-5 Flam.Liq.2; H2 115-10-6 Flam. Gas 1; I 25086-89-9 13475-82-6	KI4100000 H220 KQ6300000 225 NA Press. Gas; H220 NA	200-866-1 200-578-6 204-065-8 NA 236-757-0	40-70 20-30 10-20 1-5 0.1-1	TLV           1000           1000           NA           NA           NA	STEL NA 30000 NA NA	1000 1000 400 NF	ES- E STEL PP NF N 1800 N 760 N NF N NF N	EAK F NF 1 NF 1 NF 1 NF 1 NF 1	PEL NA 0000 <sup>-</sup> NA	STEL NA 1900 NA NA	NA 3300 NA NA	
DIFLU THAI DIMET P/VA	OROETHANE (R-152a) NOL (SD ALCOHOL 40B) THYL ETHER	75-37-6 Flam. Gas 1; I 64-17-5 Flam.Liq.2; H2 115-10-6 Flam. Gas 1; I 25086-89-9 13475-82-6 Flam. Liq. 3; A 93685-80-4	KI4100000 H220 KQ6300000 225 NA Press. Gas; H220 NA NA	200-866-1 200-578-6 204-065-8 NA 236-757-0 atic Chronic 4; H 297-628-2	40-70 20-30 10-20 1-5 0.1-1 226, H304,	TLV           1000           1000           NA           NA           NA           H413	STEL NA 30000 NA NA NA	1000 1000 400 NF NF	ES- E STEL PP NF N 1800 N 760 N NF N NF N	EAK F NF 1 NF 1 NF 1 NF 1 NF 1	PEL NA 0000 7	STEL NA 1900 NA NA NA	NA 3300 NA NA NA	
DIFLU THAI DIMET P/VA SODC	OROETHANE (R-152a) NOL (SD ALCOHOL 40B) THYL ETHER COPOLYMER DDECANE	75-37-6 Flam. Gas 1; I 64-17-5 Flam.Liq.2; H2 115-10-6 Flam. Gas 1; I 25086-89-9 13475-82-6 Flam. Liq. 3; A 93685-80-4	KI4100000 H220 KQ6300000 225 NA Press. Gas; H220 NA NA Asp. Tox. 1, Aqua NA	200-866-1 200-578-6 204-065-8 NA 236-757-0 atic Chronic 4; H 297-628-2	40-70 20-30 10-20 1-5 0.1-1 226, H304,	TLV           1000           1000           NA           NA           NA           H413	STEL NA 30000 NA NA NA	1000 1000 400 NF NF	ES-         E           STEL         PF           NF         N           1800         N           760         N           NF         N           NF         N           NF         N	EAK F 1 NF 1 NF 1 NF 1 NF 1 NF 1 NF 1	PEL NA 0000 7 NA NA NA	STEL NA 1900 NA NA NA	NA 3300 NA NA NA	
DIFLU THAI DIMET (P/VA SODC SOHE C13-1	OROETHANE (R-152a) NOL (SD ALCOHOL 40B) THYL ETHER COPOLYMER DDECANE EXADECANE 5 ALKANE	75-37-6 Flam. Gas 1; I 64-17-5 Flam.Liq.2; H2 115-10-6 Flam. Gas 1; I 25086-89-9 13475-82-6 Flam. Liq. 3; A 93685-80-4 Asp. Tox. 1; A 64742-46-7	KI4100000 H220 KQ6300000 225 NA Press. Gas; H220 NA NA Asp. Tox. 1, Aqua NA cute Tox. 4; H30	200-866-1 200-578-6 204-065-8 NA 236-757-0 atic Chronic 4; H 297-628-2 4, H332 934-954-2	40-70 20-30 10-20 1-5 0.1-1 226, H304, 0.1-1 0.1-1	TLV           1000           1000           NA           NA           NA           NA           NA           NA	STEL NA 30000 NA NA NA NA	1000 1000 400 NF NF NF NF NF	ES- STEL         F         PF           NF         N         1800         N           760         N         N         760         N           NF         N         N         N         N         N           NF         N	EAK F NF 1 NF 1 NF 1 NF 1 NF 1 NF 1 NF 1 NF	PEL           NA           0000           NA           NA           NA           NA           NA           NA           NA	STEL NA 1900 NA NA NA NA	NA 3300 NA NA NA NA	
DIFLU THAI DIMET (P/VA SODC SOHE C13-1	OROETHANE (R-152a) NOL (SD ALCOHOL 40B) THYL ETHER COPOLYMER DDECANE EXADECANE 5 ALKANE	75-37-6 Flam. Gas 1; I 64-17-5 Flam.Liq.2; H2 115-10-6 Flam. Gas 1; I 25086-89-9 13475-82-6 Flam. Liq. 3; A 93685-80-4 Asp. Tox. 1; A	KI4100000 H220 KQ6300000 225 NA Press. Gas; H220 NA NA Asp. Tox. 1, Aqua NA	200-866-1 200-578-6 204-065-8 NA 236-757-0 atic Chronic 4; H 297-628-2 4, H332	40-70 20-30 10-20 1-5 0.1-1 226, H304, 0.1-1	TLV           1000           1000           NA           NA           NA           NA	STEL NA 30000 NA NA NA	1000 1000 400 NF NF NF	ES- STEL         F         PF           NF         N         1800         N           760         N         N         760         N           NF         N         N         N         N         N           NF         N	EAK F NF 1 NF 1 NF 1 NF 1 NF 1 NF 1 NF 1 NF	PEL           NA           0000           NA           NA           NA           NA           NA           NA           NA	STEL NA 1900 NA NA NA	NA 3300 NA NA NA	
DIFLU ETHAI DIMET /P/VA SODC SOHE C13-1	OROETHANE (R-152a) NOL (SD ALCOHOL 40B) THYL ETHER COPOLYMER DDECANE EXADECANE 5 ALKANE TE	75-37-6 Flam. Gas 1; I 64-17-5 Flam.Liq.2; H2 115-10-6 Flam. Gas 1; I 25086-89-9 13475-82-6 Flam. Liq. 3; A 93685-80-4 Asp. Tox. 1; A 64742-46-7 31318-02-1`	KI4100000 H220 KQ6300000 225 NA Press. Gas; H220 NA NA Asp. Tox. 1, Aqua NA cute Tox. 4; H30	200-866-1 200-578-6 204-065-8 NA 236-757-0 atic Chronic 4; H 297-628-2 4, H332 934-954-2	40-70 20-30 10-20 1-5 0.1-1 226, H304, 0.1-1 0.1-1	TLV           1000           1000           NA           NA           NA           NA           NA           NA	STEL NA 30000 NA NA NA NA	1000 1000 400 NF NF NF NF NF	ES-         F           STEL         PE           NF         N           1800         N           760         N           NF         N	EAK F NF 1 NF 1 NF 1 NF 1 NF 1 NF 1 NF 1 NF	PEL           NA           0000           NA           NA	STEL NA 1900 NA NA NA NA	NA 3300 NA NA NA NA	
IFLU THAI P/VA SODC SOHE 113-11	OROETHANE (R-152a) NOL (SD ALCOHOL 40B) THYL ETHER COPOLYMER DDECANE EXADECANE 5 ALKANE	75-37-6 Flam. Gas 1; I 64-17-5 Flam.Liq.2; H2 115-10-6 Flam. Gas 1; I 25086-89-9 13475-82-6 Flam. Liq. 3; A 93685-80-4 Asp. Tox. 1; A 64742-46-7 31318-02-1 NA	KI4100000 H220 KQ6300000 225 NA Press. Gas; H22r NA NA NA Coute Tox. 1, Aqua NA Coute Tox. 4; H3C NA	200-866-1 200-578-6 204-065-8 NA 236-757-0 ttic Chronic 4; H 297-628-2 4, H332 934-954-2 215-283-8 NA	40-70 20-30 10-20 1-5 0.1-1 226, H304, 0.1-1 0.1-1 0.1-1	TLV           1000           1000           1000           NA           NA	STEL NA 30000 NA NA NA NA NA NA	1000 1000 400 NF NF NF NF NF NF NF NF	ES- STEL         PF           NF         N           1800         N           760         N           NF         N	EAK F NF 11 NF 1 NF 1 NF 1 NF 1 NF 1 NF 1 N	PEL	STEL NA 1900 NA NA NA NA NA NA	NA 3300 NA NA NA NA NA	
DIFLU THAN DIMET /P/VA SODC SOHE C13-11	OROETHANE (R-152a) NOL (SD ALCOHOL 40B) THYL ETHER COPOLYMER DDECANE EXADECANE 5 ALKANE TE A DIMETHICONE SILYLATE	75-37-6 Flam. Gas 1; I 64-17-5 Flam.Liq.2; H2 115-10-6 Flam. Gas 1; I 25086-89-9 13475-82-6 Flam. Liq. 3; A 93685-80-4 Asp. Tox. 1; A 64742-46-7 31318-02-1`	KI4100000 H220 KQ6300000 225 NA Press. Gas; H220 NA NA NA Sp. Tox. 1, Aqua NA cute Tox. 4; H30 NA	200-866-1 200-578-6 204-065-8 NA 236-757-0 atic Chronic 4; H 297-628-2 4, H332 934-954-2 215-283-8	40-70 20-30 10-20 1-5 0.1-1 226, H304, 0.1-1 0.1-1 0.1-1	TLV           1000           1000           NA           NA           NA           NA           NA           NA           NA           NA	STEL NA 30000 NA NA NA NA NA	1000 1000 400 NF NF NF NF NF NF NF	ES- STEL         PF           NF         N           1800         N           760         N           NF         N	EAK         F           NF         1           NF         1	PEL	STEL NA 1900 NA NA NA NA	NA 3300 NA NA NA NA	



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

SDS Revision: 1.0 SDS Revision Date: 4/17/2019

								ITAN							
									EXPOS	URE LI	NITS IN A	AIR (mg	/m³)		
						AC	GIH	l	NOHSC			OSHA			
						pp	m		ppm			ppm			
		040.04	DTEODNA			<b>T</b> 1 V	OTEL		ES-	ES-	051	OTEL		OTH	
HEM	ICAL NAME(S)	CAS No. 77-93-0	RTECS No.	EINECS No. 201-070-7	% 0-0.1	TLV NA	NA	ES-TWA	STEL NF	PEAK NF	PEL NA	STEL NA	IDLH NA	OTH	ER
<b>FRIET</b>	HYL CITRATE	11 33 0		201 0/07	0-0.1	NA	NA		INI	INI	INA	11/4	IN/A		
AQUA	(WATER/EAU)	7732-18-5	ZC0110000	231-791-2	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
(10)		1332-58-7	GF1670500	NA	0-0.1	(2)	NA	NF	NF	NF	(5)	NA	NA		
AOL	IN	Skin Irrit. 2, E	ye Irrit. 2; H315, H	1319											
4.4	First Aid			FIRST A											
4.1	First Aid:	Ingestion:		lo not induce											
				Y. If the patie											
				person. Conta											
				he time at wh	ich the n	nateria	was	ingeste	d and	the a	mount	of th	e subsi	tance that	at wa
			swallowed.												
		<u>Eyes</u> :		not likely; howe						n with o	copiou	s amoi	unts of I	ukewarm	n wate
		Skin		minutes. If irri						h luko	Narm ·	Nator	follows	thu a th	orour
		<u>Skin</u> :		e affected are											
			physician imm			ap an	u wale	<b>.</b>	Itatioi	i, reun	635 01	Swein	ing per	51515, 001	mau
		Inholotion		n to fresh air at											
4.2	Effects of Exposure:	Inhalation:													
4.2	Ellects of Exposure.	Ingestion: Eyes:		wallowed, may itating to the e							lude r	edness	s, itchin	g, irritatio	on ai
			watering.	-						-				-	
		Chilm		and the set of a The			2000	alleraic	akin ra	ontion					+:+:~ \
		<u>Skin</u> :		ng to skin. Th e individuals.	e produci	t can c	ause a	anorgio	SKIITTE	action	s (e.g.	, rashe	es, welt	s, derma	anns)
		<u>SKIN</u> : Inhalation:	some sensitive Coughing, wh	e individuals. eezing, shortn				Ũ							,
		Inhalation:	some sensitive Coughing, wh nose and resp	e individuals. eezing, shortn piratory tract.	ess of br	eath, i	mpaire	ed pulm	onary	functio	on. Irr	itation	or sore	eness in	throa
4.3	Symptoms of Overexposure:	Inhalation: Overexposu	some sensitive Coughing, wh nose and resp re in eyes may	e individuals. leezing, shortn biratory tract. cause redness	ess of br	eath, i	mpaire	ed pulm	onary oms o	functio	on. Irr	itation	or sore	eness in	throa
4.3	Symptoms of Overexposure:	Inhalation: Overexposu itching, and	some sensitive Coughing, wh nose and resp re in eyes may irritation of affect	e individuals. leezing, shortn biratory tract. cause redness	ess of br	eath, i	mpaire	ed pulm	onary oms o	functio	on. Irr	itation	or sore	eness in	throa
		Inhalation: Overexposu itching, and	some sensitive Coughing, wh nose and resp re in eyes may	e individuals. leezing, shortn biratory tract. cause redness	ess of br	eath, i	mpaire	ed pulm	onary oms o	functio	on. Irr	itation	or sore	eness in	throa
4.4	Acute Health Effects:	Inhalation: Overexposu itching, and some sensit Moderate irr	some sensitive Coughing, wh nose and resp re in eyes may irritation of affec- ive individuals. itation to eyes.	e individuals. leezing, shortn piratory tract. cause redness cted areas. Th	ess of br , itching a ne produc	reath, in and war at may o	mpaire tering. cause	ed pulm Sympt allergic	onary oms o skin re	functic f skin o eaction	on. Irr overex is (e.g.	itation posure ., rashe	or sore	eness in	throa ednes
4.4 4.5	Acute Health Effects: Chronic Health Effects:	Inhalation: Overexposu itching, and some sensit Moderate irr	some sensitive Coughing, wh nose and resp re in eyes may irritation of affective ive individuals.	e individuals. leezing, shortn piratory tract. cause redness cted areas. Th	ess of br , itching a ne produc	reath, in and war at may o	mpaire tering. cause	ed pulm Sympt allergic	onary oms o skin re	functic f skin o eaction	on. Irr overex is (e.g.	itation posure ., rashe	or sore	eness in	throa ednes
4.4 4.5 4.6	Acute Health Effects: Chronic Health Effects: Target Organs:	Inhalation: Overexposu itching, and some sensit Moderate irr No harmful o Eyes, Skin	some sensitive Coughing, wh nose and resp re in eyes may irritation of affec- ive individuals. itation to eyes. or chronic health	e individuals. leezing, shortn piratory tract. cause redness sted areas. Th effects are exp	ess of br , itching a ne produc	eath, in and wat t may o occur f	mpaire tering. cause from a	ed pulm Sympt allergic single a	onary oms o skin re	functic f skin o eaction	on. Irr overex is (e.g.	itation posure ., rashe	or sore	eness in nclude re s, derma	throa ednes atitis)
4.4 4.5 4.6	Acute Health Effects: Chronic Health Effects: Target Organs: Medical Conditions	Inhalation: Overexposu itching, and some sensit Moderate irr No harmful o Eyes, Skin Pre-existing	some sensitive Coughing, wh nose and resp re in eyes may irritation of affect ive individuals. itation to eyes. or chronic health dermatitis, othe	e individuals. leezing, shortn biratory tract. cause redness sted areas. Th effects are exp er skin conditi	ess of br , itching a ne produc pected to ons, and	eath, in and wat t may o occur f	mpaire tering. cause from a	ed pulm Sympt allergic single a	onary oms o skin re	functic f skin o eaction	on. Irr overex is (e.g.	itation posure ., rashe	or sore	eness in nclude re s, derma	throa ednes
4.4 4.5 4.6	Acute Health Effects: Chronic Health Effects: Target Organs:	Inhalation: Overexposu itching, and some sensit Moderate irr No harmful o Eyes, Skin Pre-existing	some sensitive Coughing, wh nose and resp re in eyes may irritation of affec- ive individuals. itation to eyes. or chronic health	e individuals. leezing, shortn biratory tract. cause redness sted areas. Th effects are exp er skin conditi	ess of br , itching a ne produc pected to ons, and	eath, in and wat t may o occur f	mpaire tering. cause from a	ed pulm Sympt allergic single a	onary oms o skin re accider	function f skin of eaction ntal ing	on. Irr overex is (e.g.	itation posure ., rashe	or sore	eness in nclude re s, derma	throa ednes atitis) 2
4.4 4.5 4.6	Acute Health Effects: Chronic Health Effects: Target Organs: Medical Conditions	Inhalation: Overexposu itching, and some sensit Moderate irr No harmful o Eyes, Skin Pre-existing	some sensitive Coughing, wh nose and resp re in eyes may irritation of affect ive individuals. itation to eyes. or chronic health dermatitis, othe	e individuals. leezing, shortn biratory tract. cause redness sted areas. Th effects are exp er skin conditi	ess of br , itching a ne produc pected to ons, and	eath, in and wat t may o occur f	mpaire tering. cause from a	ed pulm Sympt allergic single a the	onary oms o skin re accider HEAL	functic f skin o eaction	pn. Irr pverex is (e.g. jestion	itation posure ., rashe	or sore	eness in nclude re s, derma	throa ednes atitis)
4.4 4.5 4.6	Acute Health Effects: Chronic Health Effects: Target Organs: Medical Conditions	Inhalation: Overexposu itching, and some sensit Moderate irr No harmful o Eyes, Skin Pre-existing	some sensitive Coughing, wh nose and resp re in eyes may irritation of affec- ive individuals. itation to eyes. or chronic health dermatitis, othe	e individuals. leezing, shortn biratory tract. cause redness sted areas. Th effects are exp er skin conditi	ess of br , itching a ne produc pected to ons, and	eath, in and wat t may o occur f	mpaire tering. cause from a	ed pulm Sympt allergic single a the	onary oms o skin re accider HEAL FLAM PHYS	function f skin of eaction ntal ing TH MABI	on. Irr overex is (e.g. jestion	itation posure ., rashe	or sore	eness in nclude re s, derma	throa ednes atitis) 2 3 0
4.4 4.5 4.6	Acute Health Effects: Chronic Health Effects: Target Organs: Medical Conditions	Inhalation: Overexposu itching, and some sensit Moderate irr No harmful o Eyes, Skin Pre-existing	some sensitive Coughing, wh nose and resp re in eyes may irritation of affec- ive individuals. itation to eyes. or chronic health dermatitis, othe	e individuals. leezing, shortn biratory tract. cause redness sted areas. Th effects are exp er skin conditi	ess of br , itching a ne produc pected to ons, and	eath, in and wat t may o occur f	mpaire tering. cause from a	single a	onary oms o skin re accider HEAL FLAM PHYS PROT	function f skin of eaction ntal ing TH MABI ICAL ECTIV	on. Irr overex is (e.g. jestion	itation posure ., rashe	or sore	eness in nclude re s, derma	throa ednes atitis) 2 3
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4.4 4.5 4.6 4.7 5.1 5.1	Acute Health Effects: Chronic Health Effects: Target Organs: Medical Conditions Aggravated by Exposure: Fire & Explosion Hazards:	Inhalation: Overexposu itching, and some sensit Moderate irr No harmful of Eyes, Skin Pre-existing target organ FLAMMABI above 120 ° hazards who may rupture containers oc heat, lit cig temperature CO <sub>2</sub> ) and ni Water, Foan As in any demand) an spray to coo	some sensitive Coughing, wh nose and resp re in eyes may irritation of affective individuals. itation to eyes. or chronic health dermatitis, othe s (eyes, skin, an <b>5. Fl</b> <b>E AEROSOL</b> . F. Cool uninvolve on bursting. If a and release flar cool by spraying garettes, sparks is, may produce trogen (e.g., NO n, CO <sub>2</sub> , Dry Che fire, wear MSI d full protective of fire-exposed so	e individuals. eezing, shortn piratory tract. cause redness ted areas. Th effects are exp er skin conditional er skin conditional respiratory s EREFIGHT Level 2 Aeros ved containers aerosols are bu nmable liquids them with wate & open flam hazardous dec <u>x</u> ) and smoke. mical, Halon (ii HA/NIOSH app gear. Keep courfaces and to	ess of br , itching a ne produc pected to ons, and ystem). <b>TING IV</b> sol (NFPA to prever ursting, sta or/or exp er until the ne. Kee composition f authorizz proved s containers protect pe	international search and ware the many of	From a ers of ble bu ases it as be cainer lucts s tained until w l. Figh	single a single a the ES osols m rsting. bursting. bursting. closed. uch as o breath ell after at fire up	onary oms o skin re accider IEAL ILAM PHYS PROT EYES hay bu Aeroso g is cc ed to the guishes Whe oxides ing a the fir owind.	function f skin of eaction ntal ing MABI ICAL ECTIV ICAL ICAL ICAL ICAL ICAL ICAL ICAL ICAL	LITY HAZA JESTION HAZA JESTION HAZA JEEC SKIN tempe y be pr e. Cort cof fire ep awa osed to con (e. Jus (prut. Use nt rund	ARDS ARDS ARDS ARDS ARDS ARDS ARDS ARDS	e may ir es, welt n n h h h h	eness in nclude re s, derma	throa ednes atitis) 2 3 0
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4.4 4.5 4.6 4.7 5.1 5.1	Acute Health Effects: Chronic Health Effects: Target Organs: Medical Conditions Aggravated by Exposure: Fire & Explosion Hazards:	Inhalation: Overexposu itching, and some sensit Moderate irr No harmful of Eyes, Skin Pre-existing target organ FLAMMABI above 120 ° hazards who may rupture containers of heat, lit cig temperature CO <sub>2</sub> ) and ni Water, Foam As in any demand) an spray to coor fire control of Firefighters	some sensitive Coughing, wh nose and resp re in eyes may irritation of affective individuals. itation to eyes. or chronic health dermatitis, othe s (eyes, skin, an dermatitis, othe s (eyes, skin, an <b>5. FI</b> <b>E AEROSOL</b> . F. Cool uninvolve and release flar cool by spraying parettes, sparks s, may produce trogen (e.g., NO n, CO <sub>2</sub> , Dry Che fire, wear MSI d full protective of fire-exposed sup or dilution from e must use full bu	e individuals. teezing, shortn biratory tract. cause redness ted areas. Th effects are exp er skin conditi- id respiratory s <b>REFIGHT</b> Level 2 Aeros ved containers aerosols are bu nmable liquids them with wate & open flarr hazardous dec x) and smoke. mical, Halon (ii TA/NIOSH age. Keep c urfaces and to intering sewers unker gear incli	ess of br , itching a ne produc pected to ons, and ystem). <b>TING V</b> sol (NFPA to prever ursting, sta or/or exper er until the te. Kee composition f authorize proved s protect pe , drains, o uding NIC	and wait may of occur for a scool u ersonal drinking SSH-ap	Trom a from a ers of BUR Aer ble bu as be as be as be auntil as be auntil ucts s tained until w tained prove	single a single a single a the f f f f f f f f f f f f f f f f f f f	onary oms o skin re accider IEAL FLAM PHYS PROT EYES hay bu Aeroso g is cc ed to the guishe Whe boxides ing all the fir pwind. r, or ar	function f skin of eaction ntal ing MABI ICAL ECTIV ICAL ECTIV ICAL ECTIV ICAL ECTIV ICAL ECTIV ICAL ICAL ICAL ICAL ICAL ICAL ICAL ICAL	LITY HAZA /EEC SKIN tempe y be pr e. Cor t of fire ep awa osed t con (e. US (pro- t. US nt rung ural wa self-co	ARDS ARDS AUIPM erature: rojectile tainers Keep ay fron to higi g., CC essure e wate off fron terway ntainer	e may ir es, welt IENT se sp n h b, , 	eness in nclude re s, derma	throa ednes atitis) 2 3 0
4.4 4.5 4.6 4.7 5.1 5.1	Acute Health Effects: Chronic Health Effects: Target Organs: Medical Conditions Aggravated by Exposure: Fire & Explosion Hazards:	Inhalation: Overexposu itching, and some sensit Moderate irr No harmful of Eyes, Skin Pre-existing target organ Pre-existing target organ FLAMMABI above 120 ° hazards who may rupture containers of heat, lit cig temperature CO <sub>2</sub> ) and ni Water, Foan As in any demand) an spray to coor fire control of Firefighters breathing ag	some sensitive Coughing, wh nose and resp re in eyes may irritation of affective individuals. itation to eyes. or chronic health dermatitis, othe s (eyes, skin, an dermatitis, othe s (eyes, skin, an <b>5. FI</b> <b>E AEROSOL</b> . F. Cool uninvol- en bursting. If a and release flar cool by spraying parettes, sparks s, may produce trogen (e.g., NO n, CO <sub>2</sub> , Dry Che fire, wear MSI d full protective of fire-exposed sup or dilution from e	e individuals. teezing, shortn biratory tract. cause redness ted areas. Th effects are exp er skin conditi- id respiratory s <b>REFIGHT</b> Level 2 Aeros ved containers aerosols are bu nmable liquids them with wate & open flarr hazardous dec x) and smoke. mical, Halon (ii TA/NIOSH age. Keep c urfaces and to intering sewers unker gear incli	ess of br , itching a ne produc pected to ons, and ystem). <b>TING V</b> sol (NFPA to prever ursting, sta or/or exper er until the te. Kee composition f authorize proved s protect pe , drains, o uding NIC	and wait may of occur for a scool u ersonal drinking SSH-ap	Trom a from a ers of BUR Aer ble bu as be as be as be auntil as be auntil ucts s tained until w tained prove	single a single a single a the f f f f f f f f f f f f f f f f f f f	onary oms o skin re accider IEAL FLAM PHYS PROT EYES hay bu Aeroso g is cc ed to the guishe Whe boxides ing all the fir pwind. r, or ar	function f skin of eaction ntal ing MABI ICAL ECTIV ICAL ECTIV ICAL ECTIV ICAL ECTIV ICAL ECTIV ICAL ICAL ICAL ICAL ICAL ICAL ICAL ICAL	LITY HAZA /EEC SKIN tempe y be pr e. Cor t of fire ep awa osed t con (e. US (pro- t. US nt rung ural wa self-co	ARDS ARDS AUIPM erature: rojectile tainers Keep ay fron to higi g., CC essure e wate off fron terway ntainer	e may ir es, welt IENT se sp n h b, , 	eness in nclude re s, derma	throa ednes atitis) 2 3 0



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Prep	ared to OSHA, ACC, AN	SI, NOHSC, WHMIS, GHS & 1272/2	008/EC S	Standards	s S	SDS Revi	sion: 1.0	SDS	S Revisio	on Date:	: 4/17/2019
6. ACCIDENTAL RELEASE MEASURES											
6.1	Spills:	Before cleaning any spill or lead Equipment (PPE).	k, individ	luals inv	olved in s	spill clea	nup must	wear ap	propriat	e Perso	onal Protective
		For <u>small spills</u> (e.g., < 1 gallor	n (3.8 L)	) wear a	appropriat	e persor	nal protect	ive equir	oment (e	e.a ao	aales, aloves).
		Maximize ventilation (open doors	s and wi	ndows)	and secur	e all so	urces of i	gnition.	Remove	e spilled	d material with
		absorbent material and place into									
		local, state and federal regulations Remove any contaminated clothing						iner with	plenty of	warm v	vater and soap.
		For <u>large spills</u> (e.g., $\geq$ 1 gallon						luals. Di	ke and	contain	spill with inert
		material (e.g., sand or earth). Us									
		recovery or disposal and solid diki promptly and wash affected skin									
		and open bodies of water.	aleas wi	in soap a	and water.	Reep s	pills and c	leaning i			unicipal sewers
		- · · ·									
		7. HANDLING									
7.1	Work & Hygiene Practices:	Do not eat, drink or smoke when I residues with soap and warm wate									
7.2	Storage & Handling:	Use and store in a cool, dry, we		0,							0
		sunlight. Avoid temperatures above									
7.0	On a sint Draw and in an	damage. Avoid breathing vapor.									
7.3	Special Precautions:	Clean all spills promptly. Spilled m	naterial m	ay prese	ent a slippi	ng hazar	d.				
		8. EXPOSURE CONT		& PF	RSON						
8.1	Exposure Limits:		ACO			NOHSC			OSHA		OTHER
	ppm (mg/m <sup>3</sup> )	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	
		DIFLUOROETHANE (R-152a)	1000	NA	1000	NF	NF	NA	NA	NA	
		ETHANOL (SD ALCOHOL 40B)	1000	3000	1000	1800	NF	1000	1900	3300	
		DIMETHYL ETHER GLYCERIN	NA 10	NA NA	400 NF	760 NF	NF NF	NA 15	NA NA	NA NA	RESP FRAC
8.2	Ventilation & Engineering	General mechanical (e.g., fans) of									
	Controls:	exhaust ventilation to effectively	remove	and prev	ent buildu	up of vap	oors or mi	st genera	ated fror	n the h	
8.3	Respiratory Protection:	product. Ensure that an eyewash s No special respiratory protection									
		necessary, use only respiratory									
		§1910.134, or applicable U.S. sta	te regula	tions, or	the appro	priate sta	andards of	Canada	its prov	inces,	
8.4	Eye Protection:	E.C. member states, or Australia. Avoid eye contact. Protective eye	awaar ra	common	ded Wes	r protect		ar (e a	eafety al	20220	
		with side-shield) at all times whe									
		eyewear when cleaning spills or leaning spills o									$\overline{\mathbf{e}}$
8.5	Hand Protection:	and concentrate irritants.	d'ille a constant				I da dandi			10	
0.5	Hand Flotection.	None required under normal con- individuals. If anticipated that pro-									
		wear latex or rubber gloves for									
		§1910.138, the appropriate standa		,							
8.6	Body Protection:	No special body protection is re-								Avoid	
		prolonged and/or repeated skin co Tyvek®) if splashing or spraying c									
		apron, boots and additional facial									
		E.C. member states, or U.S. OSH/	۹.								
		9. PHYSICAL	2 CU				TIES				
9.1	Appearance:	Aerosol. Cloudy white liquid				OFER					
9.2	Odor:	Mild odor									
9.3	Odor Threshold:	NA									
9.4	pH:	NA									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling Range:	NA									
9.7	Flashpoint:	8.9 °C (48 °F)									
9.8	Upper/Lower Flammability Limits:	LEL: 5.1% / UEL: 17.1% (R-152A)									
9.9	Vapor Pressure:	70 ± 5 psig @ 70 °F									
9.10	Vapor Density:	NA									
9.11	Relative Density:	0.832 ± 0.012 (6.940 ± 0.10 lb/gal)									
9.12	Solubility:	Soluble									
i i											



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		9. PHYSICAL & CHEMICAL PROPERTIES – cont'd				
9.13	Partition Coefficient (log $P_{ow}$ ):	NA				
9.14	Autoignition Temperature:	NA				
9.15	Decomposition Temperature:	NA				
9.16	Viscosity:	NA				
9.17	9.17 Other Information: VOC: .41.8%. Percent solids: 10.14 ± 0.5					
		10. STABILITY & REACTIVITY				
10.1	Stability:	This product is stable under normal conditions. Unstable with heat.				
10.2	Hazardous Decomposition Products:	Oxides of carbon (CO, CO <sub>2</sub> ) and sulfur (SO <sub>2</sub> ).				
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:		gestion: YES			
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, four available for some of the components of the product, but is not presented in this document.	nd in scientific literature, is			
11.3	Acute Toxicity:	See Section 4.4				
11.4	Chronic Toxicity:	See Section 4.5				
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:	See Section 4.2				
11.8	Biological Exposure Indices:	NE				
11.9	Physician Recommendations:	Treat symptomatically.				
		12. ECOLOGICAL INFORMATION				
12.1	Environmental Stability:	There are 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:	Waste disposal must be in accordance with appropriate Federal, state, and local regulations.				
13.2	Special Considerations:	U.S. EPA Waste Number: D001 (characteristic - ignitable).				
		14. TRANSPORTATION INFORMATION				
		ber, proper shipping name, hazard class & division, packing group) is shown for each mode of tra	ansportation. Additional			
14.1	49 CFR (GND):	e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. CONSUMER COMMODITY, ORM-D (IP VOL ≤ 1.0 L) – until 12/31/20				
14.1	43 OF R (OND).	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL $\leq$ 1.0 L) – until 12/31/20	$\bigcirc$			
14.2	IATA (AIR):	CONSUMER COMMODITY, 9, ID8000 (IP VOL ≤ 0.5 L)	🍐 🔿 (h) 🔿			
		UN1950, AEROSOLS, FLAMMABLE, 2.1 (IP VOL > 1.0 L)	or V			
14.3	IMDG (OCN):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)	$\Diamond$			
14.4	TDGR (Canadian GND):	MARK PACKAGE ("LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" ≤ 1.0 L) or UN1950, AEROSOLS, FLAMMABLE, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)	$\diamond$			
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 (CANT. LTDA., IP VOL $\leq$ 1.0 L)	$\diamond$			
14.7	ADGR (AUS):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL $\leq$ 1.0 L)	$\diamond$			



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		15. REGULATORY	INFORMATION
15.1	SARA Reporting Requirements:	This product does not contain any substances su	bject to SARA Title III, Section 313 reporting requirements.
15.2	SARA TPQ:	There are no specific Threshold Planning Quantit	ies for the components of this product.
15.3	TSCA Inventory Status:	The components of this product are listed on the	· · · · ·
15.4	CERCLA Reportable Quantity:	NA	
15.5	Other Federal Requirements:	(Cosmetics).	ctions of the Food and Drug Administration's 21 CFR subchapter G
			pollutants. None of the components in this product are listed as priority ents in this product are listed as toxic pollutants under the CWA.
15.6	Other Canadian Regulations:	all of the information required by the CPR. T	hazard criteria of the CPR and the MSDS contains The components of this product are listed on the oduct are listed on the Priorities Substances List.
15.7	State Regulatory Information:	Substances List (MA), Minnesota Hazardous Su Right-to-Know List (PA), California Proposition 6 Exposures List (WA).	lists: Florida Toxic Substances List (FL), Massachusetts Hazardous bstances List (MN), New Jersey Right-to-Know List (NJ), Pennsylvania 5 ((CA65) ethanol in alcoholic beverages) and Washington Permissible
		criteria lists: California Proposition 65 (CA65), I List (FL), Massachusetts Hazardous Substances Substances List (MN), New Jersey Right-to-Kno	e criteria lists: MA and NJ. concentration of 1.0% or greater, are listed on any of the following state Delaware Air Quality Management List (DE), Florida Toxic Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous w List (NJ), New York Hazardous Substances List (NY), Pennsylvania Exposures List (WA), Wisconsin Hazardous Substances List (WI).
15.8	Other Requirements:		nown to the State of California to cause cancer or
		16. OTHER INFO	ORMATION
16.1	Other Information:	Discontinue use if irritation develops. fume/gas/mist/vapors/spray. Wash hands and skin irritation or rash occurs: Get medical advice, rinsing. If eye irritation persists get medical ad Halon (if authorized) to extinguish. Store in a	AY BURST IF HEATED. CAUSES SERIOUS EYE IRRITATION. Do not pierce or burn, even after use. Avoid breathing exposed skin areas with soap and warm thoroughly after handling. If /attention Remove contact lenses, if present and easy to do. Continue lvice/attention. In case of fire: Use Water, Foam, $CO_2$ , Dry Chemical, well-ventilated place. Keep cool. Use only as directed. Protect from ling 50 °C (122 °F). Discontinue use immediately if irritation develops.
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for ap of CA's knowledge, the information contained suitability or completeness is not guaranteed and PROVIDED INCLUDING THE WARRANTIES OF The information contained herein relates only	DSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other plicability to this product. To the best of ShipMate's & Shield Packaging herein is reliable and accurate as of this date; however, accuracy, d NO WARRANTIES OF ANY TYPE, EXPRESSED OR IMPLIED, ARE MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE. to the specific product(s). If this product(s) is combined with other sidered. Data may be changed from time to time. Be sure to consult the
16.4	Prepared for:	Shield Packaging of CA, Inc. 5165 "G" Street Chino CA 91710 USA Tel: +1 (909) 628-4707 Fax: +1 (909) 591-8916 http://www.shieldpackaging.com	S
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	Engerous Goods Training & Consulting



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

SDS Revision: 1.0 SDS

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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	Immediately Dangerous to Life and Health
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:

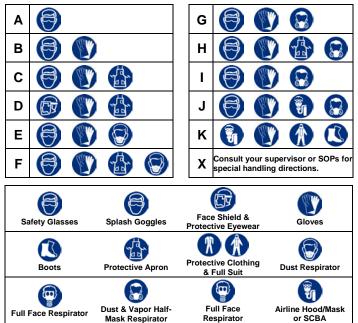
CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

#### 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:



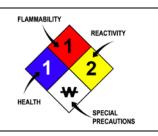
#### OTHER STANDARD ABBREVIATIONS:

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					
FLAMMABILI	FLAMMABILITY LIMITS IN AIR:				
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
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 50	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	D <sub>le</sub> , LD <sub>le</sub> , & LD <sub>e</sub> or Lowest dose (or concentration) to cause lethal or toxic effects			
TC, TC <sub>0</sub> , LC <sub>10</sub> , & LC <sub>0</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			
$\log K_{ow}$ or $\log K_{oc}$	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	Canadian Domestic Substance List			
NDSL	Canadian Non-Domestic Substance List			
PSL	Canadian Priority Substances List			
TSCA	U.S. Toxic Substance Control Act			
EU	European Union (European Union Directive 67/548/EEC)			
WGK	Wassergefährdungsklassen (German Water Hazard Class)			

#### WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

$\bigcirc$	۲	٢		1	۲		R
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:

		٨	$\Diamond$			$\diamondsuit$		
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment