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

SDS Revision: 3.0

SDS Revision Date: 2/2/2015

		<u> </u>	PRODUC	I & COM	IPANY	IDE	N FIF	·ICA	1101	V					
1	Product Name:	CIRCUIT	WRITERT	™ CONDU	JCTIVE	E SIL	VE	RINE	(P/	N C	W10	00L)	)		
2	Chemical Name:	NA											<u> </u>		
3	Synonyms:	CircuitWriter <sup>1</sup>	™; PN CW100L												
1	Trade Names:	CircuitWriter 037); Circuit	™ PEN, 4 gram Vriter™ Bottle, ™ Can, 1000 gr	s (Part No. CV 125 grams (Pa	art No. CW	/100L-4									
;	Product Uses & Restrictions:	Silver Condu		<u> </u>	01111002	<u></u> /									
	Distributor's Name:	CAIG Labora													
	Distributor's Address:		her Court, Powa	av. CA 92064-6	6876 USA										
В	Emergency Phone:		EC: +1 (703)	•			-930	) (CC	N XX	XXX	<u> </u>				
9	Business Phone / Fax:	+1 (800) 224		027 00077	11 (000	,	000	<del>3 (00</del>	14 7474	,,,,,,	<u>'</u>				
		1 ,													
				AZARDS											
1	Hazard Identification:	according to WARNING! Classification Hazard State Precautionar handling. P2 P333+P313 IN EYES: Rii easy to do. Take off cont medical advir	is classified as the classificatio CAUSES EYE In the classification CAUSES EYE In the classification is cautiously with the classification is classified as the classified as	n criteria of NO IRRITATION. in Irrit. 1B .0 – Causes ey (P): P261 – A tective gloves, n or rash occu, with water for s. g. P321 – Sp. ng and was it	MAY CAU  /e irritation  Avoid brea  P302+P3  urs get me several mi becific trea  before reu	38 (200 USE AI athing 352 – I dical actual nutes. tment:	94) and N ALL 7 – Madust. F ON dvice/a Remosee th 337+P3	y cause P264 SKIN: Nattention ove contains and a 313 – If	Code (A SKIN)  e an al  - Wash N  n. P30  tact leainer la  eye iri	Austra REAC Illergic sh the with pl 05+P3 nses, abel. ritation	skin reprouglements of the second sec	eaction of wate 338 – sent au +P364 ists: G	n. ter er. IF nd 	<	<b>!</b>
		disposal facil	ity (TSDF).												
		3 C	OMPOSIT		CDEDI	ENT	INIE		1 A TI	ON					
		<u> </u>	OWII OSIII	IOIY & IIY	GIVEDI		1141	OIVIN							
									FXPOS	SURFIL	MITS IN	J ΔIR (m	na/m³)		
						AC	GIH		EXPOS NOHSC	SURE LI	MITS IN				
						AC	GIH	ı		SURE LI	MITS IN	OSHA ppm		1	
						pp	m	ES-	ppm ES-	ES-		OSHA	T		
EM	ICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	pp TLV	STEL	ES- TWA	ppm ES- STEL	ES- PEAK	PEL	OSHA ppm STEL	IDLH	_	OTHER
		CAS No. 7440-22-4	RTECS No. VW350000	EINECS No. 231-131-3	% 60-70	pp	m	ES-	ppm ES-	ES-		OSHA	T	_	
LVE						pp TLV	STEL	ES- TWA 0.01	ppm ES- STEL	ES- PEAK	PEL	OSHA ppm STEL	IDLH	DU	
LVE	THY GLUTARATE	7440-22-4	VW350000	231-131-3	60-70	TLV 0.1	STEL NA	ES- TWA 0.01	ppm ES- STEL NF	ES- PEAK NF	PEL NA	ppm STEL NA	<b>IDLH</b> 10	DU	
LVE	ER	7440-22-4 1119-40-0 106-65-0	VW350000 NA WM6765000	231-131-3 214-277-2 203-419-9	15-40 NA	TLV 0.1 NA NA	STEL NA NA	ES- TWA 0.01 NF	POHSC ppm ES-STEL NF NF	ES- PEAK NF NF	PEL NA NA	OSHA ppm STEL NA NA	IDLH 10 NA	DU	
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ILVE IME IME	THY GLUTARATE THYL SUCCINATE THYL ADIPATE	7440-22-4 1119-40-0 106-65-0	VW350000 NA WM6765000	231-131-3 214-277-2 203-419-9	15-40 NA	TLV 0.1 NA NA	STEL NA NA	ES- TWA 0.01 NF	POPE NOT STELL NF	ES- PEAK NF NF	PEL NA NA	OSHA ppm STEL NA NA	IDLH 10 NA	DU:	
IME IME	THY GLUTARATE THYL SUCCINATE	7440-22-4 1119-40-0 106-65-0 627-93-0	VW350000  NA  WM6765000  AV1645000	231-131-3 214-277-2 203-419-9 211-020-6	60-70 15-40 NA	TLV 0.1 NA NA	STEL NA NA NA	ES- TWA 0.01	POPE NOT STELL NF	ES- PEAK NF NF	PEL NA NA NA	OSHA ppm STEL NA NA NA	IDLH 10 NA NA	DU:	
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ILVE IME IME	THY GLUTARATE THYL SUCCINATE THYL ADIPATE	7440-22-4  1119-40-0  106-65-0  627-93-0  NA  Ingestion:	NA  WM6765000  AV1645000  NA  If ingested, d IMMEDIATEL unconscious p estimate of th swallowed.	231-131-3  214-277-2  203-419-9  211-020-6  NA  FIRST All on not induce Y. If the patie person. Conta the time at wh	NA	NA	NA N	RS-TWA 0.01 NF	NOHSC ppm ES- STEL NF NF NF NF Ceen sver water water contend and	ES-PEAK NF NF NF NF Torlor the a	NA	OSHA ppm STEL NA NA NA NA NA NA trink p ever erger t of t	IDLH 10 NA NA NA NA NA NA	of vwater	vater or or milk tr. Providence that
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ME ME ME	THY GLUTARATE THYL SUCCINATE THYL ADIPATE PRIETARY RESINS	7440-22-4  1119-40-0  106-65-0  627-93-0  NA  Ingestion:	NA  WM6765000  AV1645000  NA  If ingested, dimmediate of the swallowed. Splashes are water for at lead Wash thoroug least 15 minut Remove victim	231-131-3  214-277-2  203-419-9  211-020-6  NA  FIRST Allo not induce Y. If the patie person. Containe time at who not likely; howast 15 minutes hely with soap ares. In to fresh air at at the person.	NA  NA  NA  NA  NA  NA  NA  ID ME A  vomiting. nt is vomit is vomit is vomit the neal ich the m  wever, if p lifting upp and water.  t once. If I	NA N	NA NA NA NA NA Oduct ontinue oison () was gets lower se of c	NF N	NOHSC ppm ES- STEL NF	NF N	PEL NA NA NA NA NA NA NA with call emandur	STEL NA NA NA NA NA Opinink particular properties of to the control opinink particular properties of the contro	IDLH 10 NA	of volume of the state of the s	vater or or milk tr. Providence that of lukew
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ME ME ME ROF	THY GLUTARATE THYL SUCCINATE THYL ADIPATE PRIETARY RESINS  First Aid:	7440-22-4  1119-40-0  106-65-0  627-93-0  NA  Ingestion:  Eyes: Skin: Inhalation: Ingestion:	NA  WM6765000  AV1645000  NA  If ingested, d IMMEDIATEL unconscious pestimate of th swallowed. Splashes are water for at lea Wash thoroug least 15 minut Remove victim artificial respiratificial respirations are supplied to the control of the control	231-131-3  214-277-2  203-419-9  211-020-6  NA  FIRST Allo not induce Y. If the patie person. Containe time at who not likely; howast 15 minutes hely with soap a es. In to fresh air at ation. Keep per wallowed, may itating to the eng to skin. The	NA	NA N	NA N	NF NF NF NF NF NF NF Ontrol ngeste lids, ocontact, cult, ac get mec g and/cerexpose	NOHSC ppm ES- STEL NF	NF N	PEL NA NA NA NA NA NA NA India emamour with conflush gen.	OSHA ppm STEL NA NA NA NA NA NA Irink prereduces skin w If bread	IDLH 10 NA	of v of vwater umber ubstar bunts stops	vater or or milk tr. Providence that of lukew of water from the significant of the signif



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4.3	Symptoms of Overexposure:	Langetten	4. FIRS											
4.3	Symptoms of Overexposure.	Ingestion: Eyes:	Nausea, intestii Overexposure i		-	·				na				
		Skin:	Symptoms of s	•	•			•		_	irritatio	n of affe	ected areas	. Frostbite
			like symptoms. individuals.											
4.4	Acute Health Effects:		y when used as ns of vapors can									ted are	as. Additio	onally, high
4.5	Chronic Health Effects:		y when used as luce skin sensitiza										e sensitive	individuals.
4.6	Target Organs:	Eyes, Skin.												
4.7	Medical Conditions Aggravated by Exposure:		dermatitis, others (eyes, skin, and				disorders	of the						1
		target organi	s (eyes, skiii, and	rrespirai	lory Sys	sterri).				AMMA				1
										YSICA				0
										OTECT	1	QUIPN	IENT	В
									EYI	<u> </u>	SKIN			
			5. FIF	REFIG	HTI	NG M	EASU	RES	<b>S</b>					
5.1	Fire & Explosion Hazards:		is not flammable				in a fire,	this pr	roduct i	may ded	compos	e at hig	h	
5.2	Extinguishing Methods:	Water, Foar	s to form toxic ga m, CO <sub>2</sub> , Dry Ch				itted).	Use w	ater s	oray to	cool u	nopene	d	
5.3	Firefighting Procedures:	breathing ap after the fire fire upwind. Prevent rund any natural pressure sel	s for surrounding paratus (pressur is out. Use wat Avoid spraying off from fire continuaterway. Firefif-contained breaton products and of the surrounding surround	e-demarer spraywater direction or dilection	nd) and to coo rectly ir ution fr nust us paratus	I full pro I fire-exp nto stora om ente e full bu to prote	tective goosed surge containg sewinder gear	ear. hrfaces iners b ers, dr er inclu	Keep cand to ecause dins, dins, dins, N	ontainer protect e of dan rinking IOSH-ap	rs cool personager of be water so oproved	until we al. Figh poil-over upply, c positiv	II 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0
			6. ACCIDE				SE ME	ASL	JRES	8			l	
6.1	Spills:	Equipment. Small Spills material suc water or a r plastic brood Large Spills or release.	ning any spill or Plastic or rubbe: Wear appropriate has vermiculite naterial such as ms, shovels, dust: Keep incompatisolate immediate inimal risk. Weal	r gloves, te prote or sand "speedy pans) ar ible mat e hazard	, respira ctive ed to soa dry" to nd place erials ( area a	ator, eye quipmen k up the soak u e into a p e.g., org nd keep	protection including product or material plastic columnation unauthors	on and g glove and plad. Swintainer chas or critical points.	apron in the apron	may be protection a core materiatic liner by from selection of the core of the	required ve eyed tainer f al using within a spill. St area.	d for cleavear. Use or later non-spanother ay upwi	an-up of landse a non-continuous disposal. In container. In and award and award are container.	ge spills. ombustible Do not use erials (e.g., ay from spill e if it can be
		7	. HANDLIN	IG &	STO	RAGE	INFO	)RM	ΔΤΙΟ	N				
7.1	Work & Hygiene Practices:	Do not eat, container(s).	drink or smoke When used as	when h intende	andling d, no a	this pro	oduct. C I protecti	Content ve equ	ts unde	er press				
7.2	Storage & Handling:	Use and sto sunlight. Av	essible. Wash un ore in a cool, dry oid temperatures o avoid unintention	, well-ve above 1	entilate 20 °F.	d locatio Keep av	n (e.g., I vay from	ocal e	xhaust patible	ventilat substar				
7.3	Special Precautions:		lls promptly. Spil							<i>,</i>				
		8 FXP	SURE CO	NTR	ol S	& PFI	RSON	ΔΙΕ	PRO.	TECT	ION			
8.1	Exposure Limits:	J. LAIT	JOUNE GO	ACG		ω I LI	NOHS			. <u>_                                   </u>	OSHA		OTHER	
	ppm (mg/m³)	CHEMICAL NAM	ME(S)	TLV	STEL	ES-TWA	ES-STE		-PEAK	PEL	STEL	IDLH		
8.2	Ventilation 9 Facility and	SILVER	alamia - L. C.	0.1	NA	0.01	NF	::::··	NF	NA In in a man	NA	10	DUST	
0.2	Ventilation & Engineering Controls:	exhaust ven	chanical (e.g., fa tilation to effecti sure appropriate	veľy rem	nove ar	nd preve	nt buildu	ip of v	apors	or mist	genera	ted fror	n the hand	ling of this
8.3	Respiratory Protection:	No special rinstances who protection a	respiratory protectionere dusts of this uthorized by 29 and Z94.4-93 and	tion is r product CFR §1	equired are ge 910.13	d under nerated, 4, applic	typical ci and resp able U.S	rcumst piratory 5. State	tances protece regula	of use tion is r ations, o	or hand eeded, or the C	dling. I use onl Canadia	n y n	,



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	Ω [	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd
8.4	Eye Protection:	
0.4	Eye Protection:	Avoid eye contact. Wear splash proof goggles or equivalent eye protection (ANSI Z87). Safety glasses need to be used when handling or using this product.
8.5	Hand Protection:	Impermeable gloves required. May cause skin irritation in some sensitive individuals. When handling 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:	Thick silver colored paste
9.2	Odor:	Sweet 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 Range:	196-212 °C (388-413 °F)
9.7	Flashpoint:	100 °C (212 °F)
9.8	Upper/Lower Flammability	NA NA
9.9	Limits: Vapor Pressure:	0.10 mm Hg @ 20 °C
9.10	Vapor Density:	NA
9.11	Relative Density:	NA NA
9.12	Solubility:	Negligible
9.13	Partition Coefficient (log Pow):	NA
9.14	Autoignition Temperature:	NA NA
9.15	Decomposition Temperature:	NA NA
9.16	Viscosity:	NA NA
9.17	Other Information:	NVC 60-70%
		10. STABILITY & REACTIVITY
10.1	Stability:	Stable under normal conditions; unstable with heat or contamination.
10.2	Hazardous Decomposition	Oxides of carbon (CO, CO <sub>2</sub> ).
10.3	Products: 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 available for some of the components of the product and is not presented in this document.
11.3	Acute Toxicity:	Moderate irritation to eyes and skin near affected areas.
11.4	Chronic Toxicity:	This material may aggravate any pre-existing skin condition (e.g., dermatitis).
11.5	Suspected Carcinogen:	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 .
11.9	Physician Recommendations:	Treat symptomatically.
		12 ECOLOGICAL INFORMATION
12.1	Environmental Stability:	12. ECOLOGICAL INFORMATION  There is no specific data available for this product
12.1	Effects on Plants & Animals:	There is no specific data available for this product.  There are no specific data available for this product.
		There are no specific data available for this product.
12.3	Effects on Aquatic Life:	There are no specific data available for this product; however, very large releases of this product may be harmful or fatal



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 2/2/2015 13. DISPOSAL CONSIDERATIONS Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal 13.1 Waste Disposal: regulations. Dispose of in accordance with federal, state and local regulations. 13.2 Special Considerations: The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state, federal and provincial regulations. 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): NOT REGULATED IATA (AIR): 14.2 NOT REGULATED IMDG (OCN): 14.3 NOT REGULATED TDGR (Canadian GND): 14 4 NOT REGULATED ADR/RID (EU): 14.5 NOT REGULATED SCT (MEXICO): 14 6 NOT REGULATED ADGR (AUS): 14.7 **NOT REGULATED** 15. REGULATORY INFORMATION SARA Reporting This product contains Silver a substance subject to SARA Title III, section 313 reporting requirements. Requirements 15.2 SARA Threshold Planning There are no specific Threshold Planning Quantities for the components of this product. Quantity: 15.3 TSCA Inventory Status: The components of this product are listed on the TSCA Inventory. 15.4 CERCLA Reportable Quantity Silver: 454 kg (1,000 lbs.) (RQ): 15.5 Other Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR Subchapter G, (Cosmetics) 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. Silver is found on the following state criteria list: Florida Toxic Substances List (FL), Massachusetts Hazardous 15.7 State Regulatory Information: 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). 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 Other Requirements: The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC: Irritant (Xi)

Risk Phrases: (R) 36/38 – Irritating to eyes and skin. Safety Phrases: (S) 2-24-25-36-45 – Keep out of reach of children. Avoid contact with skin. Avoid contact with eyes. Wear suitable protective clothing. In case of accident or if you feel unwell seek medical advice immediately (show the label

where possible).





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SDS Revision: 3.0

SDS Revision Date: 2/2/2015

Fieh	ared to OSITA, ACC, AND	51, NOT13C, WI INIS, 2001/36 & 12/2/2006/EC Standards	3D3 Revision 3.0 3D3 Revision Date. 2/2/2013
		16. OTHER INFO	RMATION
16.1	Other Information:	Keep out of reach of children. Avoid contact with	CAUSE AN ALLERGIC SKIN REACTION. Use only as directed skin. Avoid contact with eyes. Wear suitable protective clothing. I all advice immediately (show the label where possible). If skin irritation CED UP AND OUT OF REACH OF CHILDREN.
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for Laboratories, Inc.'s knowledge, the information of accuracy, suitability or completeness is not guara provided. The information contained herein relati	SHA's Hazard Communication Standard, 29 CFR §1910.1200. Other applicability to this product. To the best of ShipMate's & CAI contained herein is reliable and accurate as of this date; however anteed and no warranties of any type, either expressed or implied, and the specific product(s). If this product(s) is combined with the considered. Data may be changed from time to time. Be sure
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/	EAGE LABORATORIES, INC.
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	ShipMate*  Dangerous Goods Training & Consulting



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### **DEFINITION OF TERMS**

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

#### **GENERAL INFORMATION:**

CAS No.	Chemical Abstract Service Number			
EXPOSURE	LIMITS IN AIR:			
ACGIH	American Conference on Governmental Industrial Hygienists			
С	Ceiling Limit			
ES	Exposure Standard (Australia)			
IDLH	Immediately Dangerous to Life and Health			
OSHA	U.S. Occupational Safety and Health Administration			
PEL	Permissible Exposure Limit			
STEL	Short-Term Exposure Limit			
TLV	Threshold Limit Value			
TWA	Time Weighted Average			

#### FIRST AID MEASURES:

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

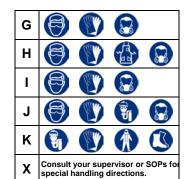
#### HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



#### PERSONAL PROTECTION RATINGS:

Α			
В			
С		THE STATE OF THE S	
D		##. 	
Е			
F		THE SECOND	



















Full Face Respirator





Airline Hood/Mask or SCBA

#### OTHER STANDARD ABBREVIATIONS:

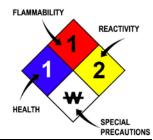
ML	Maximum Limit
mg/m3	milligrams per cubic meter
NA	Not Available
ND	Not Determined
NE	Not Established
NF	Not Found
NR	No Results
ppm	parts per million
SCBA	Self-Contained Breathing Apparatus

### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:				
<u> </u>				
Autoignition				
Temperature	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
₩	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 K <sub>ow</sub> or log K <sub>oc</sub>	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>③</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 ***		*	*		<b>®</b> X	X	×	
С	E	F	N	0	Т	Xi	Xn	
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful	

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

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