

Page 1 of 7 **CW100P**

(640-4339)

Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 02/24/2005

1. PRODUCT IDENTIFICATION			CHEMICAL RESPONSE CARE	: 04
1.1	Product Name:	CircuitWriter CW100P	RESPONSE 🔊 🔊	
1.2	Chemical Name:	See ingredients listed in section 2	TEAM PPE:	9 /
1.3	Synonyms:	CircuitWriter CW100P	WILLIES (A) (T)	
1.4	Trade Names:	CircuitWriter CW100P	WHMIS:	
1.5	Product Use:	NA	HEALTH:	2
1.6	Manufacturer's Name:	CAIG Laboratories, Inc.	FLAMMABILITY:	3
1.7	Manufacturer's Address:	12200 Thatcher Court, Poway, CA 92064-6876	REACTIVITY:	1
1.8	Business Phone:	+1 (800)-224-4123	PERSONAL PROTECTION:	В
1.9	Emergency Phone:	CHEMTREC 1-800-424-9300/1-703-52	7-3887	
1.10	Other Product Names:			

2. COMPOSITION & INGREDIENT INFORMATION

		• • • .			• .					
						EXPO	SURE LIMI	TS IN AIR ((mg/m³)	
					AC	GIH		OSHA		OTHER
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV ppm	STEL ppm	PEL ppm	STEL ppm	IDLH ppm	
SILVER	7440-22-4	VW3500000	2311313	30-60	(0.01)	NE	NE	NE	NE	
4-CHLOROBENZOTRIFLUORIDE	98-56-6	XS9145000	202-681-1	20-30	NE	NE	NE	NE	NE	
ACETONE	67-64-1	AL3150000	200-662-2	10-20	1000	NE	750	NE	NE	
ACRYLIC RESIN	UNK	UNK	UNK	3-5	NA	NA	NA	NA	NA	
ORGANOPHILIC CLAY	71011-27-3	NA	275-128-5	1-2	(1.0)	NE	NE	NE	NE	

NA = Not Available; ND = Not Determined; NE = Not Established; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2003 format.



Page 2 of 7 **CW100P**

(640-4339)

Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 02/24/2005 3. HAZARD IDENTIFICATION 3.1 Hazard Identification: Thin silver fluid with a mild odor. Flammable liquid. Breathing high concentrations of product above permissible exposure limits may result in severe or permanent toxic effects. 3.2 Routes of Entry: Inhalation: YES Absorption: YES Ingestion: YES 3.3 Effects of Exposure: EYES: May cause severe eye irritation, burning, blurred vision. SKIN: Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis. INGESTION: May result in severe or permanent toxic effects. INHALATION: Not harmful in low quantities. Symptoms of Overexposure: 3.4 EYES: May cause severe eye irritation, burning, blurred vision. SKIN: Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis. INGESTION: May result in severe or permanent toxic effects. INHALATION: Repeated inhalation of concentration above permissible exposure limits may result in severe or permanent toxic effects. Acute Health Effects: 3.5 EYES: May cause severe eye irritation, burning, blurred vision. Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis. SKIN: INGESTION: May result in severe or permanent toxic effects. INHALATION: Repeated inhalation of concentration above permissible exposure limits may result in severe or permanent toxic effects. Chronic Health Effects: 3.6 May cause severe eye irritation, burning, blurred vision. EYES: SKIN: Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis. INGESTION: May result in severe or permanent toxic effects. INHALATION: Repeated inhalation of concentration above permissible exposure limits may result in severe or permanent toxic effects. 3 7 Target Organs: Eyes, skin and respiratory system. 4. FIRST AID MEASURES 4 1 First Aid Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure EYES: complete flushing. If irritation persists, seek immediate medical attention. SKIN: Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned. INGESTION: keep person warm, quiet, and get medical attention immediately. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention. 4.2 Medical Conditions Aggravated by Exposure: 2 HEALTH None reported by the manufacturer. **FLAMMABILITY** 3 REACTIVITY 1 PROTECTIVE EQUIPMENT В **EYES** SKIN



Page 3 of 7 **CW100P**

(640-4339)

Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 02/24/2005 5. FIREFIGHTING MEASURES Flashpoint & Method: -15°C 5°F 52 Autoignition Temperature: ΝΔ Flammability Limits: 5.3 Lower Explosive Limit (LEL): 1.2 Upper Explosive Limit (UEL): 10.7 Fire & Explosion Hazards: 5.4 CO and CO2 5.5 Extinguishing Methods: CO₂, Alcohol foam, Dry Chemical 5.6 Firefighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Do not use water. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURES Spills: Secure spill area and deny entry to all unprotected individuals. Individuals involved in the cleanup should wear appropriate personal protective equipment. Area may become slippery. Absorb product onto porous material, such as sand, clay, diatomaceous earth or commercial absorbent material. Place into leak-proof, U.S. DOT-approved containers. If necessary, cover all drains and dike well ahead of the spill to prevent runoff into sewers, drains, and all waterways. Contact appropriate local or provincial authorities for assistance and/or reporting requirements. 7. HANDLING & STORAGE INFORMATION 7.1 Work & Hygiene Practices: Wash hands thoroughly after using this product and before eating, drinking, or smoking. Remove soiled clothing to prevent prolonged skin contact. 7.2 Storage & Handling: Keep away from all sources of ignition and hot surfaces. Do not expose to sunlight or elevated temperatures to prevent possible bursting. Use and store in cool, dry, well ventilated areas away from heat, hot surfaces and all sources of ignition. Protect containers from physical damage. Indoor storage should meet OSHA standards and appropriate codes. Keep container tightly closed when not in use. Keep out of reach of children. Avoid prolonged or repeated contact with skin; eyes or clothing. Avoid breathing product vapor for extended periods of time. Avoid activities that could cause splashing of the spilled material or create mists. 7.3 Special Precautions: 8. EXPOSURE CONTROLS & PERSONAL PROTECTION 8.1 Ventilation & Engineering Controls Use with adequate ventilation (e.g., open doors and windows, local exhaust ventilation). Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). 8.2 Not necessary unless used in an unventilated area or in high concentrations. If exceeded, a mechanical or self contained breathing apparatus is advised. 8.3 Wear splash goggles or other appropriate eye protection. 8.4 Wear chemically resistant rubber gloves with repeated exposure. 8.5 None required for normal conditions of use.



Page 4 of 7 CW100P (640-4339)

	ared to OSHA, ACC, ANSI, WHA	•	MSDS Revision: 2.0				
		9 PHYSICAL & CH	IEMICAL PROPERTIES				
	Density:	1.1	ILMIOAL I KOI EKIIES				
	Boiling Point:	56.2°C – 133°F					
	Melting Point:	NA NA					
	Evaporation Rate:	>1					
	Vapor Pressure:	184 mm Hg					
	Specific Gravity:	1.62					
	Appearance & Color:	Thin silver fluid					
	Odor Threshold:	Mild odor					
	Solubility:						
0	рН	Does not dissolve in water					
1	VOC (grams/liter:	ND (a)					
12	Other Information:	60					
2	Omer information.	NA					
		10 07 4 011 17	/ A DE A OTIV/ITV				
_	A		Y & REACTIVITY				
1	Stability:	Stable under normal condition	is of use (see section 7)				
.2	Hazardous Decomposition Products:	CO, CO2					
).3	Hazardous Polymerization:	Will not occur					
).4	Conditions to Avoid:	Avoid all possible sources of ig	gnition				
.5	Incompatible Substances:	Strong oxidizing agents					
		11. TOXICOLOGI	CAL INFORMATION				
1.1	Toxicity Data:	This product has not been test for the components of this pro	ed on animals to obtain toxicoduct, which are found in the	ological data. There are toxicology da scientific literature. These data have r			
		This product has not been test for the components of this pro been presented in this docum	ed on animals to obtain toxicoduct, which are found in the				
.2	Acute Toxicity:	This product has not been test for the components of this probeen presented in this docum See section 3.5	ed on animals to obtain toxicoduct, which are found in the				
.2	Acute Toxicity: Chronic Toxicity:	This product has not been test for the components of this probeen presented in this docum See section 3.5 See section 3.6	ed on animals to obtain toxicoduct, which are found in the				
.2 .3	Acute Toxicity: Chronic Toxicity: Suspected Carcinogen:	This product has not been test for the components of this probeen presented in this docum See section 3.5 See section 3.6 NE	ed on animals to obtain toxic oduct, which are found in the ent.	scientific literature. These data have n			
.2 .3	Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity:	This product has not been test for the components of this probeen presented in this docum See section 3.5 See section 3.6 NE This product is not reported to	red on animals to obtain toxic oduct, which are found in the ent. produce reproductive toxicity	scientific literature. These data have n			
.2 .3	Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity:	This product has not been test for the components of this probeen presented in this docum See section 3.5 See section 3.6 NE This product is not reported to This product is not reported to	red on animals to obtain toxic oduct, which are found in the ent. produce reproductive toxicity produce mutagenic effects in	scientific literature. These data have not			
.2 .3	Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity:	This product has not been test for the components of this probeen presented in this docum See section 3.5 See section 3.6 NE This product is not reported to This product is not reported to This product is not reported to	produce reproductive toxicity produce embryotoxic effects in produce embryotoxic effects in produce embryotoxic effects	scientific literature. These data have not			
1.2	Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity:	This product has not been test for the components of this probeen presented in this docum See section 3.5 See section 3.6 NE This product is not reported to	produce reproductive toxicity produce mutagenic effects in produce teratogenic effects in the produce effects in the produce teratogenic effects in the produce teratogenic effects in the produce effects in the produ	r in humans.			
1.3	Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity:	This product has not been test for the components of this probeen presented in this docum See section 3.5 See section 3.6 NE This product is not reported to	produce reproductive toxicity produce mutagenic effects in produce teratogenic effects in the produce effects in the produce teratogenic effects in the produce teratogenic effects in the produce effects in the produ	r in humans.			
.2 .3 .4 .5	Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product:	This product has not been test for the components of this probeen presented in this docum See section 3.5 See section 3.6 NE This product is not reported to See Section 3.3	produce reproductive toxicity produce mutagenic effects in produce teratogenic effects in	r in humans.			
.2 .3 .4 .5	Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	This product has not been test for the components of this probeen presented in this docum See section 3.5 See section 3.6 NE This product is not reported to See Section 3.3 NE	produce reproductive toxicity produce mutagenic effects in produce teratogenic effects in	r in humans.			
.2 .3 .4 .5	Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product:	This product has not been test for the components of this probeen presented in this docum See section 3.5 See section 3.6 NE This product is not reported to See Section 3.3	produce reproductive toxicity produce mutagenic effects in produce teratogenic effects in	r in humans.			
11.2 11.3 11.4 11.5	Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	This product has not been test for the components of this probeen presented in this docum See section 3.5 See section 3.6 NE This product is not reported to See Section 3.3 NE Treat symptomatically.	produce reproductive toxicity produce mutagenic effects in produce teratogenic effects in produce teratogenic effects in produce teratogenic effects in produce reproductive effects in produce teratogenic effects in produce reproductive effects	r in humans.			
.2 .3 .4 .5	Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	This product has not been test for the components of this probeen presented in this docum See section 3.5 See section 3.6 NE This product is not reported to See Section 3.3 NE Treat symptomatically.	produce reproductive toxicity produce embryotoxic effects in produce teratogenic effects in produce reproductive effects in produce embryotoxic effects in produce teratogenic effects in produce reproductive effects	r in humans. I humans. In humans.			
.2 .3 .4 .5	Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations:	This product has not been test for the components of this probeen presented in this docum See section 3.5 See section 3.6 NE This product is not reported to See Section 3.3 NE Treat symptomatically. 12. ECOLOGIC This product will slowly volation organic compounds.	produce reproductive toxicity produce mutagenic effects in produce embryotoxic effects produce teratogenic effects in produce reproductive effects in produce reproductive effects in produce reproductive effects.	r in humans.			
1.2 1.3 1.4 1.5 1.6 1.7 1.8	Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations:	This product has not been test for the components of this probeen presented in this docum See section 3.5 See section 3.6 NE This product is not reported to See Section 3.3 NE Treat symptomatically. 12. ECOLOGIC This product will slowly volation organic compounds. There is no specific data available Releases of large volumes of	produce reproductive toxicity produce mutagenic effects in produce embryotoxic effects produce teratogenic effects in produce reproductive effects in product in the	r in humans. I humans. In humans. In humans. In humans. In humans. In humans. In humans.			
1.2 1.3 1.4 1.5 1.6 1.7 1.8	Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals:	This product has not been test for the components of this probeen presented in this docum See section 3.5 See section 3.6 NE This product is not reported to See Section 3.3 NE Treat symptomatically. 12. ECOLOGIC This product will slowly volation organic compounds. There is no specific data avail	produce reproductive toxicity produce mutagenic effects in produce embryotoxic effects produce teratogenic effects in produce reproductive effects in product in the	r in humans.			
1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8	Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals: Effects on Aquatic Life:	This product has not been test for the components of this probeen presented in this docum See section 3.5 See section 3.6 NE This product is not reported to See Section 3.3 NE Treat symptomatically. 12. ECOLOGIC This product will slowly volation organic compounds. There is no specific data availance Releases of large volumes of aquatic life.	produce reproductive toxicity produce mutagenic effects in produce embryotoxic effects produce teratogenic effects in produce reproductive effects in product in the	r in humans.			
1.2 1.3 1.4 1.5 1.6 1.7 1.8	Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals: Effects on Aquatic Life:	This product has not been test for the components of this probeen presented in this docum See section 3.5 See section 3.6 NE This product is not reported to See Section 3.3 NE Treat symptomatically. 12. ECOLOGIC This product will slowly volation organic compounds. There is no specific data availance Releases of large volumes of aquatic life.	produce reproductive toxicity produce mutagenic effects in produce teratogenic effects in produce teratogenic effects in produce reproductive effects produce reproductive effects produce reproductive effects in produce reproductive effects of this product. Of this product are expected CONSIDERATIONS	r in humans.			



Page 5 of 7

CW100P

(640 - 4339)

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

MSDS Revision: 2.0

MSDS Revision Date: 02/24/2005

14. TRANSPORTATION INFORMATION

The basic description (proper shipping name, hazard class & division, ID Number, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.

14.1 49 CFR (GND):

SMALL QUANTITY - PACKAGE MARKED "THIS PACKAGE CONFORMS TO 49 CFR §173.4" (≤ 30 ml) CONSUMER COMMODITY, ORM-D (> 30 ml, <1.0L)

14.2 IATA (AIR)

EXCEPTED QUANTITY - PACKAGE LABELED WITH EXCEPTED QUANTITIES LABEL PER IATA §2.7 (\leq 30 ml) CONSUMER COMMODITY, 9, ID8000 (\leq 500 ml) ACETONE SOLUTION, 3, UN1090, II (>500 ml)

14.3 IMDG (OCN):

ACETONE SOLUTION, 3, UN1090, II, LTD QTY

14.4 TDGR (Canadian GND):

MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 1.0 L) ACETONE SOLUTION, 3, UN1090, II (> 1.0 L)

14.5 ADR/RID (EU):

1090 ACETONE SOLUTION, 3, II ADR, LTD QTY (\leq 1.0 L)

1090 ACETONE SOLUTION, 3, II, ADR (> 1.0 L)





15. REGULATORY INFORMATION

15.1 SARA Reporting Requirements:

NA

15.2 SARA Threshold Planning Quantity:

NA

15.3 TSCA Inventory Status:

All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status.

15.4 CERCLA Reportable Quantity (RQ):

Acetone: 5000 lbs

15.5 Other Federal Requirements:

NA

15.6 Other Canadian Regulations

This product has been classified according to the hazard criteria of the Controlled Products Regulations (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.



15.7 State Regulatory Information:

The primary components of this product is listed on the following state lists: California OSHA; Massachusetts Right to Know List of Chemicals; New Jersey Right to Know List 8:59 Appendix A; Pennsylvania Hazardous Substances List 34 323 Appendix A

15.8 67/548/EEC (European Union) Requirements:

The primary component of this product is listed in Annex I of EU Directive 67/548/EEC:

<u>Acetone</u>: Highly Flammable (F+, Xn). R: 11-36/37/38-66-67— Flammable. Irritating to eyes, respiratory system and skin. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness. S: 9-16-23-26-33 - Keep container in a well-ventilated place. Keep away from sources of ignition. Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take precautionary measures against static discharges.







http://www.shipmate.com/

MATERIAL SAFETY DATA SHEET

Page 6 of 7 **CW100P**

(640-4339)

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

MSDS Revision: 2.0

MSDS Revision Date: 02/24/2005

Prep	pared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 02/24/2005			
	16. OTHER INFORMATION			
16.1	Other Information:			
1/0	NA Terms & Definitions:			
16.2	See page 7 of this MSDS.			
16.3				
	This Material 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 are 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 +1 (800) CAIG-123 (244-4123) phone +1 (858) 486-8398 fax http://www.caig.com/			
16.5	Prepared by: ShipMate, Inc. 18436 Hawthorne Blvd., Suite 201 Torrance, CA 90504 310-370-3600 phone 310-370-5700 fax			



Page 7 of 7

CW100P

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

MSDS Revision: 2.0

MSDS Revision Date: 02/24/2005

DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. 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			
TLV	TLV Threshold Limit Value			
OSHA	U.S. Occupational Safety and Health Administration			
PEL	Permissible Exposure Limit			
IDLH	Immediately Dangerous to Life and Health			

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.

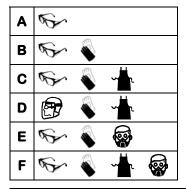
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

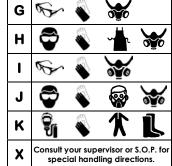
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:







OTHER STANDARD ABBREVIATIONS:

NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

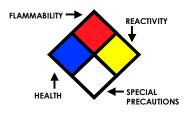
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autoignition	Minimum temperature required to initiate combustion
Temperature	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,
	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
OX	Oxidizer



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{lo}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{io} , LD _{io} , & LD _o or	Lowest dose (or concentration) to cause lethal or
TC, TCo, LCio, & LCo	toxic effects
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					
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)					

EC INFORMATION:

1		No.	*		9	X	X
С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful