

# **SAFETY DATA SHEET**

1	of 9
McLabs-P <sup>+</sup> Color	

Prepared to OSHA, ANSI, NOHSC, WHMIS, 1002/58 & 1272/2008/EC Standards SDS Revision: 4.5

SDS Revision Date: 11/28/2016

# **1. PRODUCT INDENTIFICATION**

1.1	Product Name:	
	Light Elegance P	* Color Gel Polish
1.2	Chemical Name:	
		(METH)ACRYLATE PREPOLYMER RESIN BLEND
1.3	Synonyms:	
<u> </u>	NA	
1.4	Trade Names:	
	NA	
1.5	Product Use:	
1.6		NLY, KEEP OUT OF THE REACH OF CHILDREN
1.6	Manufacturer's	
17	MCCONNELL LA	
1./		
10	Emergency Phon	LA AVE, REDMOND, OR 97756 USA
1.0		د. 03 527 3887 / +1 800 424 9300 (CCN 696869)
1.9	Business Phone	
1.5		7 / +1 541 526 1418
	1 541 520 141	
		2. HAZARD INDENTIFICATION
2.1	criteria of NOHS SKIN CONTACT D and vapor. H317 Keep away from precaustionary r work clothing sh wash with soap Remove contact medical attentio Safety Data Shee	Ation: bot classified as a HAZARDOUS SUBSTANCE and as a DANGEROUS GOOD according to the classification C: 1008 (2004) and ADG Code (Australia). WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. AVOID DUE TO SENSITIZING POTENTIAL. CAUSES EYE IRRITATION. Hazard Statements (H): H226 - Flammable liquid - May cause an allergic skin reaction. H320 - Causes eye irritation. Precautionary Statements (P): P210 - heat/sparks/open flame/hot surfaces - No Smoking. P223 - Keep container tightly closed. P243 - Take measures against static discharge. P261 - Avoid breathing fumes/gas/vapors/spray. P272 - Contaiminated nould not be allowed out of the workplace. P280 - Wear protective gloves. P302 + P352 - IF ON SKIN - and warm water. P305 + P351 + P338 - IF IN EYES - Rince continually with water for several minutes. Elenses if present and easy to do, continue rinsing. P333 + P313 - If skin reaction or a rash occurs, get in. P337 + P313 - ilf eye irritation persists, P321 - for specific first aid treatment (see section 4 of this et). P363 - Wash contaminated clothing before resuse. P501 - Dispose of contents/container to a licensed arge or disposal facility (TSDF).
2.2	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: YES
2.3	Effects of Exposi INGESTION: EYES & SKIN: INHALATION:	If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervouse system depression. The liquid may produce eye discomfort and is capable of causing temporary impairment of vision and/or transient eye inflamation, ulceration. The vapor is discomforting to the eye. Splashes may cause severe eye irritation, possible corneal burns and eye damage. Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering. May be irritating to the skin, especially after prolonged contact. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated expsoure. Vapors of this product may be moderately irritating to the nose, throat and other tissues of the respiratory system. Symptoms of overexposure can include coughing, wheezing, nasal congestion and difficulty breathing. Inhalation of concentrated vaors can cause central nervous system depression (e.g., drowsiness, headaches, nausea). Odor may give some warning of exposure but odor fatigue may occur.
	and watering. The Acute Health Effe	in overexposure may include redness, itiching and irritation of affected areas. Overexposure in eyes may cause redness, itching he product can cause allergic skin reactions (e.g., rashes, welts, deratitis) upon prolonged or repeated exposure.
2.6	<b>nausea.</b> Chronic Health E	
	The material may	y cause an allergic reaction for some sensitive individuals.
2.7	Target Organs:	

Eyes, skin

		3. COM	POSITION	& INGRI						- 1			
							LIMITS		(mg/m	3)	OSH	<u>,                                     </u>	
						ACGIH		NOHS		—			
					р	pm 	ES-	ppm ES-	ES-		ppm		
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA			PEL	STEL	IDLH	OTHER
Bis-HEA	NA	NA	NA	30-50	NA	NA	NA	NA	NF	NA	NA	NA	
Poly(propylene glycol)-													
53/IPDI Copolymer			1	-		1	1	-	-		-		
Bis-HEA Poly(1,4-	NA	NA	NA	15-30	NA	NA	NA	NA	NF	NA	NA	NA	
butanediol)-9 / IPDI													
Bis-HEMA	82339-16-0	NA	NA	15-30	NA	NA	NA	NA	NF	NA	NA	NA	
Polyneopentyl Glycol Adipate/ IPDI				-	-	-	-	-	-	-	-		
PEG-4 Dimethacrylate	25852-47-5	NA	NA	5-13	NE	NE	NE	NE	NF	NE	NE	NE	
Tetrahydrofufuryl	2455-24-5	NA	219-529-5	5-13	NE	NE	NE	NE	NF	NE	NE	NE	
Methacrvlate Sucrose Benzoate	12738-64-6	NA	NA	5-13	NE	NE	NE	NE	NF	NE	NE	NE	
JULIUSE DEIIZUALE	12/30-04-0		INA	12-12	INE	INE	INC	INC	INF		INC	INC	
lsobornyl Acrylate	7534-94-3	NA	231-403-1	5-13	NE	NE	NE	NE	NF	NE	NE	NE	
Trimethylolpropane	3290-92-4	NA	NA	5-13	NA	NA	NA	NA	NF	NA	NA	NA	
Trimethacrvlate													
1-hydroxycyclohexyl phenylketone	947-19-3	NA	NA	≤1.0	NA	NA	NF	NF	NF	NA	NA	NA	
Trimethylebenzoyl	75980-60-8	NA	278-355-8	≤1.0	NA	NA	NF	NF	NF	NA	NA	NA	
Diphenylphosphine Oxide													
Silica	7631-86-9	NA	NA	≤1.0	NA	NA	NF	NF	NF	NA	NA	NA	
MAY ALSO CONTAIN CI 77891 (Titanium	13463-67-7	XR2275000	236-675-5	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
Dioxide)	13403 07 7	7112275000	230 073 3	20.1									
CI 15850 (Red 6)	17852-98-1	NA	241-806-4	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77002 (Yellow 10)	21645-51-2	GI 8510000	215-573-4	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
er 77002 (Tellow 10)	21045 51 2	010510000	213 373 4	20.1						110	104		
CI 77007	57455-37-5	BQ4725000	215-111-1	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
(Ultramarine Blue) CI 45410 (Red 28)	18472-87-2	NA	241-409-6	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
	10772-07-2	11/4	271-403-0	1_0.1	IN/A					1174			
CI 77499 (Black Iron Oxide)	52357-70-7	NA	257-870-1	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
MICA	12001-26-2	ZF6680000	NA	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 16035 (Red 40)	25956-17-6		247-368-0	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 19140 (Yellow 5)	12225-21-7	NA	235-428-9	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
						1				1			
CI 45410 (Red 48)	18472-87-2	NA	242-355-6	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
Cl 77499 (Iron Oxide)	12227-89-3	NA	235-442-5	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
Cl 77491 (Iron Oxide)	1309-37-1	NA	215-168-2	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
Polybutylene	26062-94-2	NA	NA	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
Terephthalate	Eye Irritant 2; H3			• • • • • • • • • • • • • • • • • • •									
Polyethylene	25038-59-9	NA	NA	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
Terephthalate												<b>.</b>	
CI15880 (Red 63)	6417-83-0	NA	NA	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	

CI 19140 (Yellow 23 Al	12225-21-7	NA	NA	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	4
Lake) CI 15850 (Red 57)	5281-04-9	NA	NA	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
Cl 77510 (Prussion Blue)	25869-00-5	NA	NA	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 15880 (Red 34)	6417-83-0	NA	NA	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 15850 (Red 7)	6417-83-0	NA	NA	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 42090 (Blue 1)	15792-67-3	NA	NA	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77510 (Blue 27)	25869-00-5	NA	NA	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77266 (Carbon Black)	1333-86-4	NA	NA	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
	25035-69-2	NA	NA	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
Bis(glycidoxyphenyl)p ropane/Bisaminometh ylnorbornane Copolymer / Aluminum hydroxide / Cl 45410 / Cl 45380 /	21645-51-2 18472-87-2 17372-87-1	NA	500-326-8 244-492-7 242-355-6 241-409-6 NA	⊴0.1	NA	NA	NF	NF	NF	NA	NA	NA	ļ
GL4700F Bis (glycidoxyphenyl)p opane/Bisaminometh ylnorbornane Copolymer / Aluminum hydroxide / CL45410 / CL45380		NA	500-326-8 244-492-7 242-355-6 241-409-6	⊴0.1	NA	NA	NF	NF	NF	NA	NA	NA	
Aluminum	1333-86-4	NA	NA	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
Polyurethane-33	125826-44-0	NA	NA	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
Aluminum	7429-90-5	NA	NA	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 60725 (Violet #2)	81-48-1	NA	201-353-5	≤0.1	NA	NA	NF	NF	NF	NA	NA	NA	

## **4. FIRST AID MEASURES**

4.1	First Aid:			
	INGESTION:	If ingested, do not induce vomiting! If product has been swallowed, drink p	lenty of water or milk IMMEDIAT	ELY. If the patient
	SKIN & EYES:	If product gets in the eyes, flush with copious amounts of lukewarm water	for at least 15 minutes. Open ar	nd close eyelid(s)
	INHALATION:	Remove victim to fresh air at once. If breathing stops, perform artificial resp	piration. Seek immediate medica	l attention.
4.2	Medical Condition	ons Aggravated by Exposure:	HEALTH	1
	Pre-existing der	matitis, other skin conditions and disorders of the target organs (eyes, skin)	FLAMMABILITY	0
			PHYSICAL HAZARDS	0
			PROTECTIVE EQUIPMENT	В
			EYES SKIN	

## **5. FIREFIGHTING MEASURES**

	Flashpoint & Method: > 100 ℃ (> 212 ¶)			
5.2	Autoignition Temperature:			
	NA			
5.3	Flammability Limits:	Lower Explosive Limit (LEL): <b>NA</b>	Upper Explosive Limit (UEL): <b>NA</b>	
	-			
5.4	Fire & Explosion Hazards:			
	When involved in a fire, this pro	duct may ignite and decompose to for	m toxic gases (e.g., CO, CO2 and Nox)	
5.5	Extinguishing Methods:			
	Water, Foam, CO2, Dry Chemical			
5.6	Fire Fighting Procedures:			
	First responders should wear ev	e protection. Structural fire fighters m	nust wear full protective equipment and	

## 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Spills:

Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For small spills (e.g., , 1 gallon [3.785 liters]) wear appropriate personal protective equipment (e.g., goggles & gloves). Maximize ventilation (open doors and windows). Expose spilled material to UV light source for 2-5 minutes. Lift cured material from substrate and repeat until very little residue remains. Remove remaining spilled material with absorbent material and place into appropriate closed container(s). Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with warm, soapy water. Remove any contaminated clothing and wash before reuse. For large spills (e.g., > 1 gallon [3.785 liters]) deny entery to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Expose spilled material to UV light source for 2-5 minutes. Lift cured material to UV light source for 2-5 minutes. Lift cured material from substrate and repeat until very little residue remains. Remove remaining spilled material (e.g., sand or earth). Expose spilled material to UV light source for 2-5 minutes. Lift cured material from substrate and repeat until very little residue remains. Remove remaining spilled material with absorbent material and place into appropriate closed container(s). Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container(s). Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container(s). Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container(s). Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with warm, soapy water. Remove any contaminated clothing and wash before reuse. Keep spills and cleaning runoffs out o

### 7. HANDLING AND STORAGE INFORMATION

7.1 Work & Hygiene Practices:

Avoid prolonged contact with this material. Avoid breathing the vapors generated by this product. Use in a well ventilated location (e.g., local exhaust ventilation, fans). Wash exposed skin thoroughly with plenty of soap and water after using this product. If necessary, use a moisturizer after washing. Do not eat, drink or smoke while handling this product.

### 7.2 Storage & Handling:

Use and store in a cool, dry, well ventilated location. Keep away from excessive heat. Keep away from incompatible materials listed in Section 10. Do not store in damaged or unmarked containers or storage devises. Keep containers securely closed when not in use. Open slowly on a level, stable surface. Empty containers may contain residual amounts of this product; therefore, empty containers shoiuld be handled with care. As a precaution against exposure to the eyes, nose, throat and face, this product should not be stored higher than waist level. KEEP AWAY FROM CHILDREN AT ALL TIMES!

7.3 Special Precautions:

Do not store where temperatures can exceed 50  $^{\circ}$ C (122 F).

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	8. 6	EXPOSURE CONTROLS & PERSONAL PROTECTION	6
8.1	Ventilation & Engineering Controls:	Use with adequate ventilation (e.g., local exhaust ventilation, fans). Ensure appropriate de equipment is available (e.g., sink, safety shower, eye wash station).	econtaimination
8.2	Respiratory Protection:	No special respiratory protections is required under typical circumstances of use or handling. In instances where vapors or sprays of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR § 1910.134, application U.S. State regulations or the Candaian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC Member States or Australia.	
8.3	Eye Protection:	Wear protective eyewear (e.g., safety glasses with side shields) at all times when handling this product. Always use protective eyewear when cleaning spills or leaks. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants.	6
8.4	Hand Protection:	None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. When handling large quantities (e.g., >1 gallon [3.785 liters]), wear nitrile or imprevious gloves.	
8.5	Body Protection:	No apron required when handling small quantities. When handling large quantities (e.g., . 1 gallon), 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	Density:	1.1			
9.2	Boiling Point:	NA			
9.3	Melting Point:	ND			
9.4	Evaporation Rate:	NA			
9.5	Vapor Pressure:	<1 (air=1)			
9.6	Appearance & Color:	Clear or pigmented liquid			
9.7	Odor Threashold:	NE			
9.8	Solubility:	Not soluble			
9.9	pH:	NA			
9.1	Viscosity:	approximately 4,000 cps			
9.1	Flash Point:	26.7 °C (80 °F), calc			
9.1	Other Information:	NA			

	10. STABILITY & REACTIVITY
10	Stability: Relatively stable under ambient conditions when stored properly.
10	Hazardous Decomposition Products: If exposed to extremely high temperatures, products of thermal decomposition may include irritating vapors and toxic gases (e.g., oxides of carbon and nitrogen).
10	Hazardous Polymerization: Will not occur.
10	Conditions to Avoid: Exposure or contact to extreme temperatures, incompatable chemicals, strong light sources, sparks and flame.
11	Incompatable Substances: Strong oxidizers, peroxides, strong acids or alkalis.
	11. TOXICOLOGICAL INFORMATION
11	Toxicity Data: This product has NOT been tested on animals to obtain toxicology data. There are toxicology data for the components of the product which are found in scientific literature. These data have not been presented in this document.
11	Acute Toxicity: See Section 2.5
11	Chronic Toxicity: See Section 2.6

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11	Suspected Carcinogen: The ingredients of this product are not listed as carcinogens by the National Toxicology Program and have not been evaluated by the Internail Agency for Research on Cancer or the American Conference of Government Industrial Hygenists.	7 of						
12	Reproductive Toxicity: This product is not reported to cause reproductive toxicity in humans.							
	Autagenicity:							
	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 products is not reported to cause teratogenic effects in humans.	_						
12	Irritancy of Product:							
	See Section 2.3							
12	Biological Exposure Indicies:							
	NE							
12	Physician Recommendations:	]						
	Treat syptomatically							

# **12. ECOLOGICAL INFORMATION**

12 Environmental Stability:

This product will slowly volatile from soil. Components of this product will slowly decompose into organic compounds. Butyl Acetate:  $K_{OC}$  = 1.82. Water Solubility: 120 parts H<sub>2</sub>O at 25 °C (77 °F). Bioconcentration Factor = 4-14. Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environments from volatilization and biodegredation. This compound's half life is 6.1 hours.

12 Effects on Plants & Animals:

There is no specific data availble for this product on plant life.

12 Effects on Aquatic Life:

There is no specific data availble for this product on aquatic life.

### **13. DISPOSAL CONSIDERATIONS**

13 Waste Disposal:

Dispose inaccordance with local, state and Federal waste laws.

13 Special Considerations:

This material becomes an inert plastic upon prolonged exposure to sources of UV light and sunlight. Disposal of inert plastics is safer for the environment and is more easily handled for disposal according to local, state and Federal regulations.

### **14. TRANSPORTATION INFORMATION**

The b	asic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transp	ortation. Additional
14	49 CFR (GRD):	
	NOT REGULATED	
14	IATA (AIR):	
	NOT REGULATED	
14	IMDG (OCN):	
	NOT REGULATED	
14	TDGR (Canadian GND):	
	NOT REGULATED	
15	ADR/RID (EU):	
	NOT REGULATED	
15	MEXICO (SCT):	
	NOT REGULATED	
15	ADGR (AUS):	
	NOT REGULATED	

	15. REGULATORY INFORMATION
15	SARA Reporting:
	NA
15	SARA Threshold Planning Quantity:
	NA
15	TSCA Inventory Status:
	All components of this product are listed in the TSCA Inventory or are exempt

15 CERCLA Reportable Quantity (RQ):

16 Other Federal Requirements:

NA

This products complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).

16 Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the SDS 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 on the Priorities Substances List.

### 16 State Regulatory Information:

16 Other Information:

406 SW Umatilla Ave

Redmond, OR 97756 USA Tel: +1 541 526 1417

Ingredients in this mixture are found on the following state criteria lists: <u>Titanium Dioxide</u> is listed on the following state criteria list(s): Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposure List (WA).

16 67/548/EEC (European Union), Australian NOHSC:2011 (2003), and GHS Requirements:
The primary cononents of this product are not listed in Annex 1 of EU Directive 67/548/EEC. Irritant (Xi). Risk Phrases (R):
36/37/38 - Irritating to eyes, respiratory system and skin. Safety Phrases (S): 2-23-29 - Keep out of reach of Children. Do not breath gas, fumes, vapor or spray. Do not empty into drains.



# **16. OTHER INFORMATION**

WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES EYE IRRITATION. Avoid breathing fume, gas, mist, vapors, spray. Wear potective gloves and eye/face protection. IF ON SKIN - Wash with soap and water. IF IN EYES - Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. If skin irritation or a rash occurs - get medical advice/attention. Do not take internally. Keep away from heat and open flame. KEEP OUT OF THE REACH OF CHILDREN.

16	Terms & Definitions:						
	Please see last page of this SDS.						
16	6 Disclaimer: This Safety Data Sheet (SDS) is offered persuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other governement regulations must be reviewed for applicability to this product. To the best of McConnell Labs' knowledge, the information contained herein is reliable and accurate as of the date it was prepared; 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 sonsult the latest edition.						
16 Prepared for: McConnell Labs, Inc. 406 SW Umatilla Ave Redmond, OR 97756 USA Tel: +1 541 526 1417							
17	Prepared by: McConnell Labs, Inc.						



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### **DEFINITION OF TERMS**

DN

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				
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:

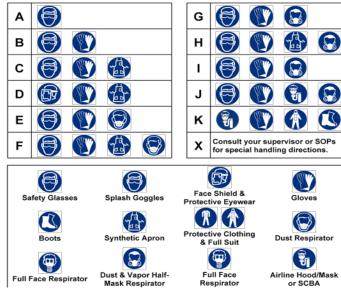
CPR Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.

### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

#### HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTIO
4	Extreme Hazard	

#### PERSONAL PROTECTION RATINGS:



#### OTHER STANDARD ABBREVIATIONS:

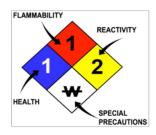
NA	Not Available					
NR	No Results					
NE	NE Not Established					
ND	ND Not Determined					
ML	ML Maximum Limit					
SCBA	SCBA Self-Contained Breathing Apparatus					

#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:								
Autoignition Minimum temperature required to initiate combustion in air with no ot 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 vol 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
OX	Oxidizer
TREFOIL	Radioactive



#### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
	S
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>io</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
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:

0	۲	٨	$\textcircled{\begin{subarray}{c} \end{subarray}}$	1	۲		Ŕ
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:

		*	*	<b>*</b>	<b>.</b>	×	×
С	E	F	N	0	т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

		٩	$\diamondsuit$					
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment