

# SAFETY DATA SHEET

Prepared to OSHA, ANSI, NOHSC, WHMIS, 1002/58 & 1272/2008/EC Standards SDS Revision: 4.15

Revision Date: 02/11/2021

### **1. PRODUCT INDENTIFICATION** 1.1 Product Name: LIGHT ELEGANCE ButterCream Color Gels 1.2 Chemical Name: POLYURETHANE (METH) ACRYLATE PREPOLYMER RESIN BLEND 1.3 Synonyms: NA 1.4 Trade Names: ButterCream Color Gel 1.5 Product Use: EXTERNAL USE ONLY, KEEP OUT OF THE REACH OF CHILDREN 1.6 Manufacturer's Name: MCCONNELL LABS. INC. 1.7 Manufacturer's Adress: 406 SW UMATILLA AVE, REDMOND, OR 97756 USA 1.8 Emergency Phone: CHEMTREC: +1 703 527 3887 / +1 800 424 9300 (CCN 696869) 1.9 Business Phone / Fax: +1 541 526 1417 / +1 541 526 1418 2. HAZARD INDENTIFICATION Hazard Identification: 2.1 WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. CAUSES EYE IRRITATION. Hazard Statements (H): H317 - May cause an allergic skin reaction. H320 - Causes eye irritation. Precautionary Statements (P): P210 - Keep away from heat/sparks/open flame/hot surfaces - No Smoking. P223 - Keep container tightly closed. P243 - Take precaustionary measures against static discharge. P261 - Avoid breathing fumes/gas/vapors/spray. P272 - Contaiminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves. P302 + P352 - IF ON SKIN - wash with soap and warm water. P305 + P351 + P338 - IF IN EYES - Rince continually with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing. P333 + P313 - If skin reaction or a rash occurs, get medical attention. P337 + P313 - ilf eye irritation persists, P321 - for specific first aid treatment (see section 4 of this Safety Data Sheet). P363 - Wash contaminated clothing before resuse. P501 - Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF). Absorption: YES 2.2 Routes of Entry: Inhalation: YES Ingestion: YES 2.3 Effects of Exposure: INGESTION: If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervouse system depression. EYES & SKIN: 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. INHALATION: 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. 2.4 Symptoms of Overexposure: Symptoms of skin overexposure may include redness, itiching and irritation of affected areas. Overexposure in eyes may cause redness, itching and watering. The product can cause allergic skin reactions (e.g., rashes, welts, deratitis) upon prolonged or repeated exposure. 2.5 Acute Health Effects: Moderate irritation to eyes near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. 2.6 Chronic Health Effects: The material may cause an allergic reaction for some sensitive individuals.

2.7 Target Organs: Eyes, skin

	T	3. COM	POSITION	& INGRE	-								2	2 of
									(mg/m3	3) I	0011	^		-
						GIH		NOHS	L		OSH		_	
					p	pm 	ES-	ppm ES-	ES-		ppm		-	
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	PEL	STEL		OTHER	
Bis-HEA Poly (1,4-	NA	NA	NA	30-50	NA	NA	NA	NA	NF	NA	NA	NA		_
butanediol)-9 / IPDI Copolymer														
Bis-HEMA Poly (Neopentyl Glycol Adipate) / IPDI	NA	NA	NA	15-30	NA	NA	NA	NA	NF	NA	NA	NA		
Copolymer Dilution													1	
	25852-47-5	NA	NA	15-30	NA	NA	NA	NA	NF	NA	NA	NA		-
Trimethylolpropane Trimethacrylate	3290-92-4	NA	NA	5-13	NA	NA	NA	NA	NF	NA	NA	NA		_
Isobornyl methacrylate	7534-94-3	NA	NA	5-13	NA	NA	NA	NA	NF	NA	NA	NA		-
1-hydroxycyclohexyl	947-19-3	NA	278-355-8	0-5	NA	NA	NF	NF	NF	NA	NA	NA		
phenylketone Trimethylbenzoyl	75980-60-8	NA	278-355-8	≤1.0	NA	NA	NF	NF	NF	NA	NA	NA		
Diphenylphosphine Oxide	75980-60-8		278-355-8	151.0		INA	INF	INF	INF	<u>INA</u>			1	
Silica	60676-86-0	NA	310-060-2	≤1.0	NA	NA	NF	NF	NF	NA	NA	NA		-
MAY ALSO CONTAIN		<b>I</b>	T											
CI 77891 (Titanium Dioxide)	13463-67-7	XR2275000	236-675-5	≤5	NA	NA	NF	NF	NF	NA	NA	NA		
CI 15850 (Red 6)	5858-81-1	NA	227-497-9	≤1	NA	NA	NF	NF	NF	NA	NA	NA		-
CI 47005 (Yellow 10)	8004-92-0 21645-51-2	GL8510000	NA	≤1	NA	NA	NF	NF	NF	NA	NA	NA		
CI 77007	57455-37-5	BQ4725000	215-111-1	≤1	NA	NA	NF	NF	NF	NA	NA	NA		
(Ultramarine Blue)				•										
CI 45410 (Red 28)	18472-87-2	NA	241-409-6	≤1	NA	NA	NF	NF	NF	NA	NA	NA		
CI 77499 (Black Iron	52357-70-7	NA	257-870-1	≤1	NA	NA	NF	NF	NF	NA	NA	NA		
Oxide) MICA	12001-26-2	ZF6680000	NA	≤1	NA	NA	NF	NF	NF	NA	NA	NA		
CI 16035 (Red 40)	25956-17-6	VV8760000	247-368-0	≤1	NA	NA	NF	NF	NF	NA	NA	NA	[	
CI 19140 (Yellow 5)	12225-21-7	NA	235-428-9	≤1	NA	NA	NF	NF	NF	NA	NA	NA		
CI 45410 (Red 48)	18472-87-2	NA	242-355-6	≤1	NA	NA	NF	NF	NF	NA	NA	NA		-
Cl 77499 (Iron Oxide)	12227-89-3	NA	235-442-5	≤1	NA	NA	NF	NF	NF	NA	NA	NA		1
Cl 77491 (Iron Oxide)	1309-37-1	NA	215-168-2	≤1	NA	NA	NF	NF	NF	NA	NA	NA		
Polybutylene Terephthalate	26062-94-2 Eye Irritant 2; H3:	NA 19	NA	≤1	NA	NA	NF	NF	NF	NA	NA	NA		
Polyethylene Terephthalate	25038-59-9	NA	NA	≤1	NA	NA	NF	NF	NF	NA	NA	NA	[	-
CI15880 (Red 63)	6417-83-0	NA	NA	≤1	NA	NA	NF	NF	NF	NA	NA	NA		-

	-	-											
CI 19140 (Yellow 23 Al Lake)	12225-21-7	NA	NA	≤1	NA	NA	NF	NF	NF	NA	NA	NA	3 of 2
CI 15850 (Red 57)	5281-04-9	NA	NA	≤1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77510 (Prussion Blue)	25869-00-5	NA	NA	≤1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 15880 (Red 34)	6417-83-0	NA	NA	≤1	NA	NA	NF	NF	NF	NA	NA	NA	I
Cl 15850 (Red 7)	6417-83-0	NA	NA	≤1	NA	NA	NF	NF	NF	NA	NA	NA	I
CI 42090 (Blue 1)	15792-67-3	NA	NA	≤1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77510 (Blue 27)	25869-00-5	NA	NA	≤1	NA	NA	NF	NF	NF	NA	NA	NA	ļ
CI 77266 (Carbon Black)	1333-86-4	NA	NA	≤1	NA	NA	NF	NF	NF	NA	NA	NA	
Acrylates Copolymer	25035-69-2	NA	NA	≤1	NA	NA	NF	NF	NF	NA	NA	NA	
Bis(glycidoxyphenyl)p ropane/Bisaminometh ylnorbornane Copolymer	NA	NA	NA	<u>≤</u> 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
Aluminum hydroxide CI 47005 CI 45410 CI 45380	21645-51-2 8004-92-0 18472-87-2 17372-87-1		244-492-7 305-632-3 242-355-6 241-409-6										
Bis(glycidoxyphenyl)p ropane/Bisaminometh ylnorbornane Copolymer Aluminum hydroxide	NA 21645-51-2	NA	NA 244-492-7	⊴0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 45410 CI 45380	18472-87-2 17372-87-1		242-355-6 241-409-6										
Polyurethane-33	125826-44-0	NA	NA	≤1	NA	NA	NF	NF	NF	NA	NA	NA	
Aluminum	7429-90-5	NA	NA	≤1	NA	NA	NF	NF	NF	NA	NA	NA	L
CI 60725 (Violet #2)	81-48-1	NA	201-353-5	≤1	NA	NA	NF	NF	NF	NA	NA	NA	I
** Due to trade s	secret information	n, more deta	iled concentratio	ons of the	ingredier	nts can	not be	e provi	ded.				
			4. FIRS	T AID	MEAS	URE	S						
4.1 First Aid: INGESTION: SKIN & EYES:	is vomiting, com Control Center amount of the s If product gets i to ensure thore	tinue to offe or local eme substance th in the eyes, pugh irrigatio	er water or milk. ergency number. nat was swallowo flush with copio on. Seek immedi	Never giv Provide a ed. ous amour ate medic	ve water an estim ats of luk al attent	or mill ate of ewarn ion. If	k to an the tir n wate probl	ne at w r for a em per	nscious vhich t t least rsists, s	s perso he ma 15 mir seek ir	on. Co terial v nutes. nmedia	ntact th vas inge Open a ate med	nd close eyelid(s) dical attention. If
	affected area w	ith plenty of firritation in	is on the skin, rir f soak and waste	er. Remov	e all con	tamina	ated cl	othing n imme	includ diatel	ling foo	otwea	and wa	ash thoroughly
4.2 Medical Condition			at once. If breath	ning stops	, perforr	n artifi	cial re	spiratio HEA		екітп	nediate	emedic	al attention.
	matitis, other ski		and disorders o	of the targ	et organ	s (eyes	s, skin			ILITY			0
	-	-		0	U		· ·			HAZAR	DS		0
										e equi	PMEN	Т	В
								EYES	SKIN				

## **5. FIREFIGHTING MEASURES**

Upper Explosive Limit (UEL): NA

5.1 Flashpoint & Method:

>100 °C (>212 °F)

5.2 Autoignition Temperature: **NA** 

5.3 Flammability Limits:

5.4 Fire & Explosion Hazards:

When involved in a fire, this product may ignite and decompose to form toxic gases (e.g., CO, CO2 and Nox)

Lower Explosive Limit (LEL): NA

5.5 Extinguishing Methods:

Water, Foam, CO2, Dry Chemical

5.6 Fire Fighting Procedures:

First responders should wear eye protection. Structural fire fighters must wear full protective equipment and MSHA/NIOSH approved, self-contained breathing apparatus. If possible, prevent runoff water from entering storm drains, bodies of water or other enviormentally sensitive reas. If necessary, rinse contaminated equipment with soapy water before returning to service.

## 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

## 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 should 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 °C (122 °F).

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Ventilation & Engineering Controls:	Use with adequate ventilation (e.g., local exhaust ventilation, fans). Ensure appropriate d	econtaimination
		equinment is available (e.g., sink, safety shower, eve wash station).	
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 Brovincos. EC Momber 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 nose a special hazard: soft lenses may absorb and concentrate irritants.	
8.4	Hand Protection:	None required under normal conditions of use. However, may cause skin irritation in	0000
		some sensitive individuals. When handling large quantities (e.g., >1 gallon [3.785	
		liters)) wear pitrile 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.	

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		9. PHYSICAL & CHEMICAL PROPERTIES	50
0.1	Density		0
9.1	Density:	1.1 NA	-
9.2	Boiling Point:	NA ND	
9.3	Melting Point:	NA	
9.4 9.5	Evaporation Rate: Vapor Pressure:	NA	
9.6	Appearance & Color:	Clear or pigmented liquid	
9.7	Odor Threashold:		
9.8		Not soluble	
9.9	pH:		
9.1	Viscosity:	approximately 100,000 cps	_
9.1	Flash Point:	NA	
9.1	Other Information:	NA	$\dashv$
		10. STABILITY & REACTIVITY	
10	Stability:		
10	Relatively stable under ambient co		
10	Hazardous Decomposition Produc		
		eratures, products of thermal decomposition may include irritating vapors and toxic gases (e.g., oxides of	
4.0	carbon and nitrogen).		—
10	Hazardous Polymerization:		
10	Will not occur. Conditions to Avoid:		
10			
		mperatures, incompatable chemicals, strong light sources, sparks and flame.	
11	Incompatable Substances:	and the second set of the second s	
	Strong oxidizers, peroxides, strong	acids or alkalis.	
		11. TOXICOLOGICAL INFORMATION	
11	Toxicity Data:		
	-	on animals to obtain toxicology data. There are toxicology data for the components of the produ t which a	re
	-	e data have not been presented in this document.	
11	Acute Toxicity:		
	See Section 2.5		
11	Chronic Toxicity:		
	See Section 2.6		
11	Suspected Carcinogen:		
		not listed as carcinogens by the National Toxicology Program and have not been evaluated by the Internai	.
	•	the American Conference of Government Industrial Hygenists.	
12	Reproductive Toxicity:		
12		se reproductive toxicity in humans.	
	Mutagenicity:		
		duce mutagenic effects in humans.	
	Embryotoxicity:		
	- 1 1	duce embryotoxic effects in humans.	
	Teratogenicity:		
		use teratogenic effects in humans.	
12	Irritancy of Product:		
12			
17	See Section 2.3 Biological Exposure Indicies:		
12	NE		
12	Physician Recommendations:		
12	Treat syptomatically		
		12. ECOLOGICAL INFORMATION	
12	Environmental Stability:		
		m soil. Components of this product will slowly decompose into organic compounds.	
12	Effects on Plants & Animals:		
12	There is no specific data availble for	r this product on plant life	
17	Effects on Aquatic Life:	n this product on plant life.	
12			

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

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	13. DISPOSAL CONSIDERATIONS	of 8
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.	1
	14. TRANSPORTATION INFORMATION	
The b	asic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional	
	intive information may be required by 49 CFR. IATA/ICAO. IMDG. SCT. ADR and the CTDGR.	
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):	
15	NOT REGULATED	
15	MEXICO (SCT):	
	NOT REGULATED	
15	ADGR (AUS):	
	NOT REGULATED	1
	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):	
	NA	
16	Other Federal Requirements:	
10	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:	
-	Ingredients in this mixture are found on the following state criteria lists: Titanium Dioxide 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:	1
	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.	
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	16. OTHER INFORMATION
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	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.
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17	Prepared by: McConnell Labs, Inc. 406 SW Umatilla Ave Redmond, OR 97756 USA Tel: +1 541 526 1417 Fax: +1 541 526 1418

### **DEFINITION OF TERMS**

N

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	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:

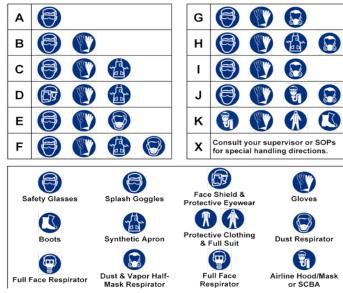
CPR Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.

### 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	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:						
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition					
LEL	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
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 Kow or log Koc	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:

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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>N</b>	*	<b>*</b>	*	×	×
С	E	F	Ν	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