


Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 &amp; 1272/2008/EC Standards    SDS Revision: 1.2    SDS Revision Date: 08/21/2013

## 1. PRODUCT IDENTIFICATION

1.1	Product Name: <b>LIGHT ELEGANCE COLORED GELS</b>
1.2	Chemical Name: <b>POLYURETHANE ACRYLATE PREPOLYMER RESIN BLEND</b>
1.3	Synonyms: <b>NA</b>
1.4	Trade Names: <b>COLORED GELS, LE ART GELS, GLITTER GELS, SWEDISH WHITE GEL, PERFECT WHITE GEL, GEL POLISH, GEL PAINTS</b>
1.5	Product Use: <b>PROFESSIONAL OR SUNDRY USE ONLY</b>
1.6	Manufacturer's Name: <b>McCONNELL LABS, INC.</b>
1.7	Manufacturer's Address: <b>406 S.W. UMATILLA AVE., REDMOND, OR 97756 USA</b>
1.8	Emergency Phone: <b>CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300</b>
1.9	Business Phone / Fax: <b>+1 (541) 526-1417 / +1 (541) 526-1418</b>

## 2. HAZARD IDENTIFICATION

2.1	Hazard Identification: <b>This product is classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS according to the classification criteria of NOHSC: 1008 (2004) and ADG Code (Australia).</b> <b>WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. CAUSES EYE IRRITATION.</b> <u>Hazard Statements (H):</u> H317 – May cause an allergic skin reaction. H320 – Causes eye irritation. <u>Precautionary Statements (P):</u> P261 – Avoid breathing dust/fume/gas/mist/vapours/spray. P272 – Contaminated work clothing should not be allowed out of the workplace. P280 – Wear protective gloves. P302+P352 – IF ON SKIN - Wash with soap and water. P305+P351+P338 – IF IN EYES - Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P333+P313 – If skin irritation or a rash occurs - Get medical advice/attention. P337+P313 – If eye irritation persists, P321 – For specific first aid treatment (see section 4 of this Safety Data Sheet). P363 – Wash contaminated clothing before reuse. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).			
2.2	Routes of Entry:	Inhalation: <b>YES</b>	Absorption: <b>YES</b>	Ingestion: <b>YES</b>
2.3	Effects of Exposure: <b>INGESTION:</b> If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression. <b>EYES &amp; SKIN:</b> The liquid may produce eye discomfort and is capable of causing temporary impairment of vision and/or transient eye inflammation, 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 skin, especially after prolonged contact. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. <b>INHALATION:</b> 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 vapors can cause central nervous system depression (e.g., drowsiness, dizziness, headaches, nausea). Odor may give some warning of exposure, but odor fatigue may occur.			
2.4	Symptoms of Overexposure: <b>Symptoms of skin overexposure may include redness, itching, 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, dermatitis) upon prolonged or repeated exposure.</b>			
2.5	Acute Health Effects: <b>Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.</b>			
2.6	Chronic Health Effects: <b>The material may cause an allergic reaction for some sensitive individuals.</b>			
2.7	Target Organs: <b>Eyes, skin &amp; respiratory system.</b>			

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 Z400.1-2010 format.

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### 3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m <sup>3</sup> )								
					ACGIH		NOHSC			OSHA			OTHER
					ppm		ppm			ppm			
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
POLYURETHANE ACRYLATE PREPOLYMER RESIN	NA	NA	NA	40-70	NA	NA	NA	NF	NF	NA	NA	NE	
POLYURETHANE METHACRYLATE PREPOLYMER RESIN	NA	NA	NA	15-40	NA	NA	NF	NF	NF	NA	NA	NA	
TRIPROPYLENEGLYCOL DIACRYLATE	42978-66-5	NA	256-032-2	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
1-HYDROXYCYCLOHEXYL PHENYLKETONE	947-19-3	NA	213-426-9	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
BENZOPHENONE	119-61-9	NA	204-337-6	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
SILICA	67762-90-7	NA	231-545-4	1-5	(10)	NA	NF	NF	NF	NA	NA	NA	

**MAY ALSO CONTAIN**


CI 77891 (TITANIUM DIOXIDE)	13463-67-7	XR2275000	236-675-5	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 75470 (CARMINE RED)	1328-60-5	NA	215-527-3	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 74160 (BLUE 15)	147-14-8	GL8510000	205-685-1	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 47005 (YELLOW 10)	8004-92-0	NA	305-897-5	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77266 (BLACK 7)	1333-86-4	FF5800000	215-609-9	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77004 (WHITE 19)	1318-74-7	NA	215-286-4	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 42090 (BLUE 1)	3844-45-9	BQ4725000	223-339-8	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77007 (ULTRAMARINE)	57455-37-5	NA	309-928-3	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 15850 (RED 7)	5858-81-1	NA	227-497-9	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 19140 (YELLOW 23)	1934-21-0	UQ6400000	217-699-5	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77492 (YELLOW 42)	51274-00-1	NA	257-098-5	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77499 (BROWN 6)	52357-70-7	NA	257-870-1	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 15985 (YELLOW 6)	2783-94-0	ZF6680000	220-491-7	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
MICA	12001-26-2	VV8760000	310-127-6	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 16035 (RED 40)	25956-17-6	NA	247-368-0	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
BUTENE, HOMOPOLYMER, HYDROGENATED	68937-10-0	NA	NA	< 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	
CI 77510 (BLUE 27)	14038-43-8	NA	237-875-5	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77491 (IRON OXIDE)	1309-37-1	NO7400000	215-168-2	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CARMINE	1390-65-4	NA	215-724-4	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
TIN OXIDE	18282-10-5	XQ4000000	242-159-0	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
RUTILE (TiO <sub>2</sub> )	1317-80-2	VA8533500	215-282-2	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
GLASS, OXIDE, CHEMICALS	65597-17-3	NA	NA	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	
POLYESTER GLITTER	NA	NA	NA	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	

### 4. FIRST AID MEASURES

4.1	First Aid:	<p><b>INGESTION:</b> If ingested, do not induce vomiting! If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed.</p> <p><b>SKIN &amp; EYES:</b> If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. Open and close eyelid(s) to ensure thorough irrigation. Seek immediate medical attention. If problem persists, seek immediate medical attention. If irritation occurs &amp; product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with plenty of soap and water. Remove all contaminated clothing, including footwear and wash thoroughly before reuse. If irritation, redness or swelling persists, consult a physician immediately.</p> <p><b>INHALATION:</b> Remove victim to fresh air at once. If breathing stops, perform artificial respiration. Seek immediate medical attention.</p>											
4.2	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions, and disorders of the target organs (eyes, skin, respiratory system).	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #0000FF; color: white; text-align: center;"><b>HEALTH</b></td> <td style="text-align: center;"><b>1</b></td> </tr> <tr> <td style="background-color: #FF0000; color: white; text-align: center;"><b>FLAMMABILITY</b></td> <td style="text-align: center;"><b>1</b></td> </tr> <tr> <td style="background-color: #FFFF00; text-align: center;"><b>REACTIVITY</b></td> <td style="text-align: center;"><b>0</b></td> </tr> <tr> <td style="background-color: #000000; color: white; text-align: center;"><b>PROTECTIVE EQUIPMENT</b></td> <td style="text-align: center;"><b>B</b></td> </tr> <tr> <td style="text-align: center;"><b>EYES</b></td> <td style="text-align: center;"><b>SKIN</b></td> </tr> </table>	<b>HEALTH</b>	<b>1</b>	<b>FLAMMABILITY</b>	<b>1</b>	<b>REACTIVITY</b>	<b>0</b>	<b>PROTECTIVE EQUIPMENT</b>	<b>B</b>	<b>EYES</b>	<b>SKIN</b>
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## 5. FIREFIGHTING MEASURES

5.1	Flashpoint & Method: <b>&gt; 100 °C (&gt; 212 °F)</b>				
5.2	Autoignition Temperature: <b>NA</b>				
5.3	Flammability Limits:	Lower Explosive Limit (LEL):	<b>NA</b>	Upper Explosive Limit (UEL):	<b>NA</b>
5.4	Fire & Explosion Hazards: <b>This product is an extremely flammable liquid. When involved in a fire, this product may ignite and decompose to form toxic gases (e.g., CO, CO<sub>2</sub>, NO<sub>x</sub>).</b>				
5.5	Extinguishing Methods: <b>Water, Foam, CO<sub>2</sub>, Dry Chemical</b>				
5.6	Firefighting Procedures: <b>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 environmentally sensitive areas. If necessary, rinse contaminated equipment with soapy water before returning to service.</b>				

## 6. ACCIDENTAL RELEASE MEASURES

6.1	Spills: <b>Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For <u>small spills</u> (e.g., &lt;1 gallon (3.785 liters)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows). Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. For <u>large spills</u> (e.g., ≥ 1 gallon (3.785 liters)), deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.</b>
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## 7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices: <b>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 &amp; water after using this product. If necessary, use a moisturizer after washing. Do not eat, drink, or smoke while handling this product.</b>
7.2	Storage & Handling: <b>Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Keep away from excessive heat. Keep away from incompatible materials listed in Section 10. Do not store in damaged or unmarked containers or storage devices. 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!</b>
7.3	Special Precautions: <b>Do not store where temperatures can exceed 50 °C (122 °F).</b>

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Ventilation & Engineering Controls: <b>Use with adequate ventilation (e.g., local exhaust ventilation, fans). Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station).</b>
8.2	Respiratory Protection: <b>No special respiratory protection 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, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia.</b>
8.3	Eye Protection: <b>Wear protective eyewear (e.g., safety glasses with side-shield) 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.</b>
8.4	Hand Protection: <b>None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. When handling large quantities (e.g., ≥ 1 gallon), wear rubber or impervious plastic gloves.</b>
8.5	Body Protection: <b>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.</b>

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## 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:	ND
9.6	Molecular Weight:	NE
9.7	Appearance & Color:	Clear or pigmented liquid
9.8	Odor Threshold:	NE
9.9	Solubility:	Not soluble
9.10	pH	NA
9.11	Viscosity:	30,000
9.12	Other Information:	NA

## 10. STABILITY & REACTIVITY

10.1	Stability:	<b>Relatively stable under ambient conditions when stored properly.</b>
10.2	Hazardous Decomposition Products:	<b>If exposed to extremely high temperatures, products of thermal decomposition may include irritating vapors and toxic gases (e.g., oxides of carbon &amp; nitrogen).</b>
10.3	Hazardous Polymerization:	<b>Will not occur.</b>
10.4	Conditions to Avoid:	<b>Exposure or contact to extreme temperatures, incompatible chemicals, strong light sources, sparks, flame.</b>
10.5	Incompatible Substances:	<b>Strong oxidizers, peroxides, strong acids or alkalis.</b>

## 11. TOXICOLOGICAL INFORMATION

11.1	Toxicity Data:	<b>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.</b>
11.2	Acute Toxicity:	<b>See Section 2.5</b>
11.3	Chronic Toxicity:	<b>See Section 2.6</b>
11.4	Suspected Carcinogen:	<b>The ingredients of this product are not listed as carcinogens by the National Toxicology Program and have not been evaluated by the International Agency for Research on Cancer or the American Conference of Government Industrial Hygienists.</b>
11.5	Reproductive Toxicity:	<b>This product is not reported to cause reproductive toxicity in humans.</b>
	Mutagenicity:	<b>This product is not reported to produce mutagenic effects in humans.</b>
	Embryotoxicity:	<b>This product is not reported to produce embryotoxic effects in humans.</b>
	Teratogenicity:	<b>This product is not reported to cause teratogenic effects in humans.</b>
	Reproductive Toxicity:	<b>This product is not reported to cause reproductive effects in humans.</b>
11.6	Irritancy of Product:	<b>See Section 2.3</b>
11.7	Biological Exposure Indices:	<b>NE</b>
11.8	Physician Recommendations:	<b>Treat symptomatically.</b>

## 12. ECOLOGICAL INFORMATION

12.1	Environmental Stability:	<b>This product will slowly volatile from soil. Components of this product will slowly decompose into organic compounds.</b>
12.2	Effects on Plants & Animals:	<b>There is no specific data available for this product.</b>
12.3	Effects on Aquatic Life:	<b>There is no specific data available for this product. Releases of large volumes may be harmful or fatal to overexposed aquatic life. Aquatic toxicity data for components of this product are available, but are not presented in this SDS.</b>

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## 13. DISPOSAL CONSIDERATIONS



13.1	Waste Disposal: <b>Dispose in accordance with local, state and Federal hazardous waste laws.</b>
13.2	Special Considerations: <b>U.S. EPA Characteristic Waste: D001 (ignitability)</b>

## 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, ADR, SCT and the CTDRG.

14.1	49 CFR (GND): <b>NOT REGULATED</b>	
14.2	IATA (AIR): <b>NOT REGULATED</b>	
14.3	IMDG (OCN): <b>NOT REGULATED</b>	
14.4	TDGR (Canadian GND): <b>NOT REGULATED</b>	
14.5	ADR/RID (EU): <b>NOT REGULATED</b>	
14.6	MEXICO (SCT): <b>NOT REGULATED</b>	
14.7	ADGR (AUS): <b>NOT REGULATED</b>	

## 15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements: <b>NA</b>	
15.2	SARA Threshold Planning Quantity: <b>NA</b>	
15.3	TSCA Inventory Status: <b>All components of this product are listed in the TSCA Inventory or are exempt.</b>	
15.4	CERCLA Reportable Quantity (RQ): <b>NA</b>	
15.5	Other Federal Requirements: <b>This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).</b>	
15.6	Other Canadian Regulations <b>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/NDL. None of the components of this product are listed on the Priorities Substances List.</b>	
15.7	State Regulatory Information: <b>Ingredients in this mixture on found on the following state criteria lists:</b> <b><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 Exposures List (WA).</b> <b><u>Mica</u> is found on the following state criteria lists: Florida Toxic Substances List (FL), MA, PA, WA.</b> <b><u>Rutile</u> is found on the following state criteria lists: PA.</b> <b><u>Benzophenone</u> is listed on the following state criteria list(s): MN.</b> <b>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 (CA), 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 List (WI).</b>	
15.8	67/548/EEC (European Union), Australian NOHSC:2011 (2003), and GHS Requirements: <b>The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC.</b> <b>WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. CAUSES EYE IRRITATION.</b> <b>Hazard Statements (H): H317 – May cause an allergic skin reaction. H320 – Causes eye irritation.</b> <b>Precautionary Statements (P): P261 – Avoid breathing dust/fume/gas/mist/vapours/spray. P272 – Contaminated work clothing should not be allowed out of the workplace. P280 – Wear protective gloves. P302+P352 – IF ON SKIN - Wash with soap and water. P305+P351+P338 – IF IN EYES - Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P333+P313 – If skin irritation or a rash occurs - Get medical advice/attention. P337+P313 – If eye irritation persists, P321 – For specific first aid treatment (see section 4 of this Safety Data Sheet). P363 – Wash contaminated clothing before reuse. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).</b>	

## 16. OTHER INFORMATION

16.1	Other Information:	<p><b>Keep out of reach of children. Do not take internally. Keep away from heat and open flame.</b></p>
16.2	Terms & Definitions:	<p><b>Please see last page of this SDS.</b></p>
16.3	Disclaimer:	<p><b>This 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 &amp; McConnell Labs' 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.</b></p>
16.4	Prepared for:	<div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p><b>McConnell Labs, Inc.</b> 406 S.W. Umatilla Ave. Redmond, OR 97756 USA Tel: +1 (541) 526-1417 Fax: +1 (541) 526-1418 <a href="http://www.lightelegance.com/">http://www.lightelegance.com/</a></p> </div> <div style="flex: 1; text-align: center;">  </div> </div>
16.5	Prepared by:	<div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p><b>ShipMate, Inc.</b> PO Box 787 Sisters, OR 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 e-mail: <a href="mailto:shipmate@shipmate.com">shipmate@shipmate.com</a></p> </div> <div style="flex: 1; text-align: center;">  </div> </div>



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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
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### 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.
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### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

### HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

HEALTH
FLAMMABILITY
PHYSICAL HAZARDS
PERSONAL PROTECTION

### PERSONAL PROTECTION RATINGS:

A		G	
B		H	
C		I	
D		J	
E		K	
F		X	Consult your supervisor or SOPs for special handling directions.

<b>Safety Glasses</b>	<b>Splash Goggles</b>	<b>Face Shield &amp; Eye Protection</b>	<b>Gloves</b>
<b>Boots</b>	<b>Synthetic Apron</b>	<b>Full Suit</b>	<b>Dust Respirator</b>
<b>Full Face Respirator</b>	<b>Dust &amp; Vapor Half-Mask Respirator</b>	<b>Full Face Respirator</b>	<b>Airline Hood/Mask or SCBA</b>

Note: the dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.

### OTHER STANDARD ABBREVIATIONS:

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

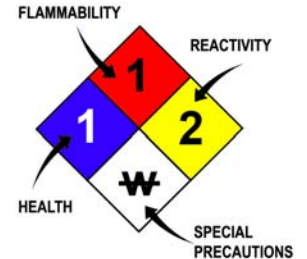
### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

### 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
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>01</sub>	Lowest dose to cause a symptom
TCL <sub>01</sub>	Lowest concentration to cause a symptom
TD <sub>01</sub> , LD <sub>01</sub> , & LD <sub>01</sub> , or TC, TC <sub>01</sub> , LC <sub>01</sub> , & LC <sub>01</sub>	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL <sub>m</sub>	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
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:

A	B	C	D1	D2	D3	E	F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

### EC (67/548/EEC) INFORMATION:

C	E	F	N	O	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

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