


Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards MSDS Revision: 1.1

MSDS Revision Date: 09/27/2016

## 1. PRODUCT IDENTIFICATION

|     |  |
|-----|--|
| 1.1 | Product Name:<br><b>LAC IT! NO-WIPE TOP COAT</b>                     |
| 1.2 | Chemical Name:<br><b>OLIGOMER BLEND</b>                              |
| 1.3 | Synonyms:<br><b>N/A</b>  |
| 1.4 | Trade Names:<br><b>LAC IT! MATTE TOP</b>                             |
| 1.5 | Product Use:<br><b>COSMETIC USE ONLY</b>                             |
| 1.6 | Manufacturer's Name:<br><b>EN VOGUE SCULPTURED NAIL SYSTEMS INC.</b> |
| 1.7 | Manufacturer's Address:<br><b>6322 202ND STREET LANGLEY, BC</b>      |
| 1.8 | Business Phone/Fax<br><b>1.604.514.3606</b>                          |
| 1.9 | Emergency Phone:<br><b>BC DPIC: 1-800-567-8911</b>                   |

## 2. HAZARD IDENTIFICATION

|     |  |                        |                        |   |                       |
|-----|--|------------------------|------------------------|---|-----------------------|
| 2.1 | <p>Hazard Identification:</p> <p>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). AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL.</p> <p><u>Hazard Statements (H):</u> H225 - Flammable liquid and vapor. H317 - may cause an allergic skin reaction. H320 - Causes eye irritation.</p> <p><u>Precautionary Statements (P):</u> P210 - Keep away from heat/sparks/open flame/hot surfaces - No Smoking. P233 - Keep container tightly closed. P243 - Take precautionary measures against static discharge. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash exposed skin areas thoroughly with soap and water after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. 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. P321 - For specific first air treatment (see section 4 of this Safety Data Sheet). P363 - Wash contaminated clothing before reuse. P370+P378 - In case of fire, CO<sub>2</sub>, Halon (if permitted), dry chemical, or foam for extinction. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).</p> |                        |                        |  |                       |
| 2.2 | Routes of Entry:   | Inhalation: <b>YES</b> | Absorption: <b>YES</b> |   | Ingestion: <b>YES</b> |
| 2.3 | <p>Effects of Exposure:</p> <p><b>INGESTION:</b> If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression.</p> <p><b>SKIN &amp; EYES:</b> Slightly irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering. May be irritating to skin in some sensitive individuals especially after prolonged and/or repeated contact.</p> <p><b>INHALATION:</b> Vapours of this product may be slightly irritating to the nose, throat and other tissues of the respiratory system. Symptoms of overexposure can include coughing, wheezing, nasal congestion and difficulty breathing.</p>  |                        |                        |   |                       |
| 2.4 | <p>Symptoms of Overexposure:</p> <p>Symptoms of skin overexposure in individuals may include redness, itching and irritation of affected areas. Over exposure in eyes may cause redness, itching and watering.</p>   |                        |                        |   |                       |
| 2.5 | <p>Acute Health Effects :</p> <p>Mild to moderate irritation of eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.</p>  |                        |                        |   |                       |
| 2.6 | <p>Chronic Health Effects:</p> <p>None Known</p>   |                        |                        |   |                       |
| 2.7 | <p>Target Organs:</p> <p>Eyes, skin</p>  |                        |                        |   |                       |

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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 |       |
| DI-HEMA TRIMETHYLHEXYL DICARBAMATE       | 41137-60-4 | NA        | 2552-239-5 | 30-60 | NA  | NA   | NF     | NF      | NF      | NA   | NA   | NA   |       |
| HEMA                                     | 868-77-9   | OZ4725000 | 212-782-2  | 10-30 | NA  | NA   | NF     | NF      | NF      | NA   | NA   | NA   |       |
| TRIMETHYLOLPROPANE TRIACRYLATE           | 15625-89-5 | NA        | 239-701-3  | 10-30 | NA  | NA   | NF     | NF      | NF      | NA   | NA   | NA   |       |
| ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE | 84434-11-7 | NA        | 282-810-6  | 2-5   | NA  | NA   | NF     | NF      | NF      | NA   | NA   | NA   |       |
| HYDROXYCYCLOHEXYL PHENYL KETONE          | 947-19-3   | NA        | 213-426-9  | 3-7   | NA  | NA   | NF     | NF      | NF      | NA   | NA   | NA   |       |
| CI60725                                  | 81-48-1    | NA        | 201-353-5  | >1    | NA  | NA   | NF     | NF      | NF      | NA   | NA   | NA   |       |

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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## 4. FIRST AID MEASURES

- 4.1 First Aid:  
**INGESTION:** If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is unconscious, 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.  
**EYES:** Splashes are not likely; however, if product gets in the eyes flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.  
**SKIN:** If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water followed by a thorough washing of the effected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.

- 4.2 Medical Conditions Aggravated by Exposure:  
**Special removal Instructions:** Follow nail prep & removal instructions. Longer wear may increase removal time - soak nails longer. Do not force or pull gel away from nail or use metal implements/electric drill to remove product. If client experiences any sensation during removal (e.g., pressure, squeezing, pinching) remove wrap and gently file surface of gel only along sidewalls with edge file. Gently push off as much gel colour as possible with a cuticle stick. Re-saturate foil wrap, rewrap nail, and continue soaking.

|                             |   |
|-----------------------------|---|
| <b>HEALTH</b>               | 1 |
| <b>FLAMMABILITY</b>         | 1 |
| <b>PHYSICAL HAZARDS</b>     | 0 |
| <b>PROTECTIVE EQUIPMENT</b> | B |
| <b>EYES</b>                 |   |
| <b>SKIN</b>                 |   |

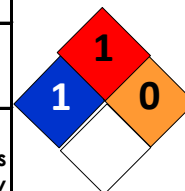
## 5. FIREFIGHTING MEASURES

- 5.1 Flashpoint & Method:  
 $\leq 17^{\circ}\text{C}$  (62.6°F), ASTM D-93
- 5.2 Auto ignition Temperature:  
**NA**
- 5.3 Flammability Limits:  
 Lower Explosive Limit (LEL): **NE**      Upper Explosive Limit (UEL): **NE**

- 5.4 Fire & Explosion Hazards:  
**WARNING: Flammable! Keep away from heat, lit cigarettes, sparks and open flame. Keep container closed.**

- 5.5 Extinguishing Methods:  
**CO<sub>2</sub>, Halon (where authorized), Dry Chemical, Foam.**      HazChem Code: 3YE

- 5.6 Firefighting Procedures:  
**When involved in a fire, this product will ignite readily and decompose to produce carbon oxides. First responders should wear eye protection. Structural firefighters must wear SCBAs and full protective equipment. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product.**



## 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) wear appropriate personal protective equipment (e.g., goggles, gloves). Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, provincial 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 large spills (e.g.,  $\geq 1$  gallon), deny entry to all unprotected individuals. maximize ventilation (open doors and windows) and secure all source of ignition. 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.**

## 7. HANDLING & STORAGE INFORMATION

- 7.1 Work & Hygiene Practices:  
**Avoid prolonged contact with the product. Avoid breathing vapors of this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling**
- 7.2 Storage & Handling:  
**Keep this material away from heat, sparks and open flame. Open containers slowly on a stable surface. Keep container closed tightly when not in use. Empty container may contain residual amounts of this product: therefore, empty containers should be handled with care. Store containers in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat. Store away from incompatible materials (See Section 10).**

# MATERIAL SAFETY DATA SHEET

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## 7. HANDLING & STORAGE INFORMATION Con't

- |     |   |
|-----|---|
| 7.3 | Special Precautions:<br><b>Open containers slowly on a stable surface. Keep container tightly closed when not in use. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care.</b> |
|-----|---|

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

- |     |   |
|-----|---|
| 8.1 | Ventilation & Engineering Controls:<br><b>When working with large quantities of product, provide adequate ventilation (e.g., local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.</b>  |
| 8.2 | Respiratory Protection:<br><b>No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states or Australia.</b> |
| 8.3 | Eye Protection:<br><b>Depending on the use of this product, splash or safety glasses may be worn. If necessary, refer to U.S. OSHA 29 CFR §1910.133 Canadian standards, or the European Standard EN166.</b>   |
| 8.4 | Hand Protection:<br><b>AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. If anticipated that prolonged &amp; repeated skin contact will occur during use of this product, wear latex or rubber gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canadian of the E.C. member states.</b>                |
| 8.5 | Body Protection:<br><b>AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. However, no special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the E.C. member states or U.S. OSHA.</b>   |

## 9. PHYSICAL & CHEMICAL PROPERTIES

- |      |                     |                        |
|------|---------------------|------------------------|
| 9.1  | Density:            | 1.100-1.300            |
| 9.2  | Boiling Point:      | ND                     |
| 9.3  | Melting Point:      | NE                     |
| 9.4  | Evaporation Rate:   | ND                     |
| 9.5  | Vapor Pressure:     | NA                     |
| 9.6  | Molecular Weight:   | NE                     |
| 9.7  | Appearance & Color: | Liquid, various colors |
| 9.8  | Odor Threshold:     | ND                     |
| 9.9  | Solubility:         | Insoluble              |
| 9.10 | pH                  | NA                     |
| 9.11 | Viscosity:          | 1,080 cPs              |
| 9.12 | Other Information:  | NA                     |

## 10. STABILITY & REACTIVITY

- |      |   |
|------|---|
| 10.1 | Stability:<br><b>Stable under ambient conditions when stored properly ( see Section 7, Storage and Handling)</b>  |
| 10.2 | Hazardous Decomposition Products:<br><b>If exposed to extremely high temperatures, the products of thermal decomposition may include irritating vapors and carbon oxide</b> |
| 10.3 | Hazardous Polymerization:<br><b>May occur, if exposed to extremely high temperatures.</b>   |
| 10.4 | Conditions to Avoid:<br><b>This product is incompatible with strong oxidizers (e.g., peroxides, superoxide's) strong acids (e.g., hydrochloric or muriatic acids), or</b>   |
| 10.5 | Incompatible Substances:<br><b>None Known</b>   |

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## 11. TOXICOLOGICAL INFORMATION

- |      |   |
|------|---|
| 11.1 | <p>Toxicity Data:</p> <p><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. This data has not been presented in this document.</b></p>  |
| 11.2 | <p>Acute Toxicity:</p> <p><b>See Section 2.5</b></p>  |
| 11.3 | <p>Chronic Toxicity:</p> <p><b>See Section 2.6</b></p>  |
| 11.4 | <p>Suspected Carcinogen:</p> <p><b>NA</b></p>   |
| 11.5 | <p>Reproductive Toxicity:</p> <p><b>This product is not reported to produce reproductive effects in humans.</b></p> <p>Mutagenicity:</p> <p><b>This product is not reported to produce reproductive effects in humans.</b></p> <p>Embryo toxicity:</p> <p><b>This product is not reported to produce reproductive effects in humans.</b></p> <p>Teratogenicity:</p> <p><b>This product is not reported to produce reproductive effects in humans.</b></p> |
| 11.6 | <p>Irritancy of Product:</p> <p><b>See Section 2.3</b></p>  |
| 11.7 | <p>Biological Exposure Indices:</p> <p><b>NE</b></p>  |
| 11.8 | <p>Physician Recommendations:</p> <p><b>Treat symptomatically</b></p>   |

## 12. ECOLOGICAL INFORMATION

- |      |  |
|------|--|
| 12.1 | <p>Environmental Stability:</p> <p><b>The components of this product will slowly degrade over time into a variety of organic compounds.</b></p>  |
| 12.2 | <p>Effects on Plants &amp; Animals:</p> <p><b>There are no specific data available for this product.</b></p>   |
| 12.3 | <p>Effects on Aquatic Life:</p> <p><b>There are no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.</b></p> |

## 13. DISPOSAL CONSIDERATIONS

- |      |   |
|------|---|
| 13.1 | <p>Waste Disposal:</p> <p><b>Waste disposal must be in accordance with appropriate Federal, Provincial and local regulations.</b></p> |
| 13.2 | <p>Special Considerations:</p> <p><b>U.S. EPA WAST NUMBER: D0001 (characteristic - Ignitable).</b></p>                                |

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## 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/ICOA, IMDG and the CTDGR.

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

## 15. REGULATORY INFORMATION

|  |   |   |  |                         |  |                         |  |                         |   |                         |   |                         |  |                         |  |                         |
|--|---|---|--|-------------------------|--|-------------------------|--|-------------------------|---|-------------------------|---|-------------------------|--|-------------------------|--|-------------------------|
| 15.1   | SARA Reporting Requirements:<br><br><b>NA</b>   |   |  |                         |  |                         |  |                         |   |                         |   |                         |  |                         |  |                         |
| 15.2   | SARA Threshold Planning Quantity:<br><br><b>NA</b>  |   |  |                         |  |                         |  |                         |   |                         |   |                         |  |                         |  |                         |
| 15.3   | TSCA Inventory Status:<br><br><b>The components of this product are listed on the TSCA Inventory.</b>   |   |  |                         |  |                         |  |                         |   |                         |   |                         |  |                         |  |                         |
| 15.4   | CERCLA Reportable Quantity (RQ):<br><br><b>NA</b>   |   |  |                         |  |                         |  |                         |   |                         |   |                         |  |                         |  |                         |
| 15.5   | Other Federal Requirements:<br><br><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:<br><b>This product has been classified according to the hazard criteria of the 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. Class B2 Flammable Liquid.</b>   |  |  |                         |  |                         |  |                         |   |                         |   |                         |  |                         |  |                         |
| 15.7   | State Regulatory Information:<br><b>Ingredients in this mixture are found on the following state criteria lists:</b><br><br><table><tr><td><b>California OSHA Hazardous Substances List</b></td><td><b>Titanium Dioxide</b></td></tr><tr><td><b>Massachusetts Hazardous Substances List</b></td><td><b>Titanium Dioxide</b></td></tr><tr><td><b>Minnesota Hazardous Substances List</b></td><td><b>Titanium Dioxide</b></td></tr><tr><td><b>New Jersey Right to Know Hazardous Substances List</b></td><td><b>Titanium Dioxide</b></td></tr><tr><td><b>Pennsylvania Hazardous Substances List</b></td><td><b>Titanium Dioxide</b></td></tr><tr><td><b>Washington Permissible Exposure limits for Air Contaminants</b></td><td><b>Titanium Dioxide</b></td></tr><tr><td><b>Wisconsin Hazardous Substances List</b></td><td><b>Titanium Dioxide</b></td></tr></table> |   | <b>California OSHA Hazardous Substances List</b> | <b>Titanium Dioxide</b> | <b>Massachusetts Hazardous Substances List</b> | <b>Titanium Dioxide</b> | <b>Minnesota Hazardous Substances List</b> | <b>Titanium Dioxide</b> | <b>New Jersey Right to Know Hazardous Substances List</b> | <b>Titanium Dioxide</b> | <b>Pennsylvania Hazardous Substances List</b> | <b>Titanium Dioxide</b> | <b>Washington Permissible Exposure limits for Air Contaminants</b> | <b>Titanium Dioxide</b> | <b>Wisconsin Hazardous Substances List</b> | <b>Titanium Dioxide</b> |
| <b>California OSHA Hazardous Substances List</b>                   | <b>Titanium Dioxide</b>   |   |  |                         |  |                         |  |                         |   |                         |   |                         |  |                         |  |                         |
| <b>Massachusetts Hazardous Substances List</b>                     | <b>Titanium Dioxide</b>   |   |  |                         |  |                         |  |                         |   |                         |   |                         |  |                         |  |                         |
| <b>Minnesota Hazardous Substances List</b>                         | <b>Titanium Dioxide</b>   |   |  |                         |  |                         |  |                         |   |                         |   |                         |  |                         |  |                         |
| <b>New Jersey Right to Know Hazardous Substances List</b>          | <b>Titanium Dioxide</b>   |   |  |                         |  |                         |  |                         |   |                         |   |                         |  |                         |  |                         |
| <b>Pennsylvania Hazardous Substances List</b>                      | <b>Titanium Dioxide</b>   |   |  |                         |  |                         |  |                         |   |                         |   |                         |  |                         |  |                         |
| <b>Washington Permissible Exposure limits for Air Contaminants</b> | <b>Titanium Dioxide</b>   |   |  |                         |  |                         |  |                         |   |                         |   |                         |  |                         |  |                         |
| <b>Wisconsin Hazardous Substances List</b>                         | <b>Titanium Dioxide</b>   |   |  |                         |  |                         |  |                         |   |                         |   |                         |  |                         |  |                         |

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## 15. REGULATORY INFORMATION - cont'd

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

The primary components of this product are listed in Annex I of EU Directive 67/548/EEC: **Hema: (Xi) Irritant.**  
**Risk Statements (R):** 43 May cause sensitization by skin contact. **Safety Statements (S):** 2-26-28 Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water. **AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL.**  
**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. P233 - Keep container tightly closed. Breathing dust/fume/gas/mist/vapours/spray. P264 - Wash exposed skin areas thoroughly with soap and water after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. 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. P321 - For specific first aid treatment (see section 4 of this Safety Data Sheet). P370+P378 - In case of fire, CO2, Halon (if permitted), dry chemical, or foam for extinction. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).



## 16. OTHER INFORMATION

16.1 Other Information:

**AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL.**

Keep away from heat or flame. Use only as directed. Avoid eye contact. If contact occurs, flush eye thoroughly with running water. Use only in a well-ventilated area. If redness or other signs of adverse reaction occur, discontinue use immediately. Keep container closed. Store in a cool place. **KEEP OUT OF REACH OF CHILDREN.**

16.2 Terms & Definitions:

**Please see last page of this MSDS**

16.3 Disclaimer:

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 Trapp Industries 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 by:

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**TRAPP**  
Industries Inc.



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## 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   | 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 PROTECTION |
| 4 | Extreme Hazard  |                     |

### PERSONAL PROTECTION RATINGS:

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

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

### OTHER STANDARD ABBREVIATIONS:

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

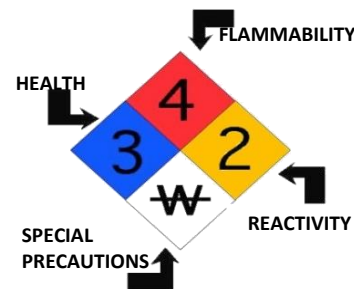
### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

### 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  |
| ACO     | 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 animals   |
| ppm  | Concentration expressed in parts of material per million parts        |
| TD <sub>10</sub>   | Lowest Dose to cause a symptom  |
| TCLo   | Lowest concentration to cause a symptom                               |
| TD <sub>10</sub> , LD <sub>10</sub> & LD <sub>01</sub> or TC, TD <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  | Bio-concentration 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)    |

|            |           |           |       |          |            |           |          |
|------------|-----------|-----------|-------|----------|------------|-----------|----------|
|            |           |           |       |          |            |           |          |
| A          | B         | C         | D1    | D2       | D3         | E         | F        |
| Compressed | Flammable | Oxidizing | Toxic | Irritant | Infectious | Corrosive | Reactive |

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

|           |           |           |         |           |            |          |         |
|-----------|-----------|-----------|---------|-----------|------------|----------|---------|
|           |           |           |         |           |            |          |         |
| C         | E         | F         | N       | O         | T+         | Xi       | Xn      |
| Corrosive | Explosive | Flammable | Harmful | Oxidizing | Very 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 Irritant | Health Hazard | Environment |