# 1. PRODUCT IDENTIFICATION

**1.1 Product Name:**
MARINE GEL™

**1.2 Chemical Name:**
ETHANOL SOLUTION

**1.3 Synonyms:**
MARINE GEL

**1.4 Trade Names:**
Marine Gel™ - Hydrating Oil

**1.5 Product Use:**
COSMETIC USE ONLY

**1.6 Distributor's Name:**
CREATIVE NAIL DESIGN, INC.

**1.7 Distributor's Address:**
1128 JOSHUA WAY, VISTA, CA USA 92081

**1.8 Emergency Phone:**
CHEMTREC: +1 (800) 424-9300 / +1 (703) 527-3887

**1.9 Business Phone:**
(800) 833-NAIL (6245), (760) 599-2900

# 2. HAZARD IDENTIFICATION

**2.7 Hazard Identification:**
This product is classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS according to the classification criteria of NOHSC:1088 (2004) and ADG Code (Australia). Flammable liquid.

**2.2 Routes of Entry:**

<table>
<thead>
<tr>
<th>Route of Entry</th>
<th>Inhalation</th>
<th>Absorption</th>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>

**2.3 Effects of Exposure:**

**INHALATION:**
If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression.

**EYES:**
Slightly irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering.

**SKIN:**
May be irritating to skin in some sensitive individuals.

**INHALATION:**
Vapors of this product may be slightly irritating to the nose, throat and other tissues of the respiratory system. Inhalation of concentrated vapors can cause central nervous system depression (e.g., drowsiness, dizziness, headaches, nausea).

**2.4 Symptoms of Overexposure:**

**EYES:**
Overexposure in eyes may cause redness.

**SKIN:**
Symptoms of skin overexposure may include redness, itching, and irritation of affected areas.

**INHALATION:**
When working with large quantities (e.g., >1 gallon (3.785 liters)), 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).

**2.5 Acute Health Effects:**

**EYES:**
Slight irritation to eyes near affected areas.

**SKIN:**
Slight irritation to skin near affected areas.

**INHALATION:**
When working with large quantities (e.g., >1 gallon (3.785 liters)), high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.

**2.6 Chronic Health Effects:**

None known.

**2.7 Target Organ(s):**
Eyes, skin & respiratory system.

*NA = Not Available; ND = Not Determined; NE = Not Established; NF = Not Found; 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 Z400.1-2004 format.*
3. COMPOSITION & INGREDIENT INFORMATION

<table>
<thead>
<tr>
<th>CHEMICAL NAME(S)</th>
<th>CAS No.</th>
<th>RTECS No.</th>
<th>EINECS No.</th>
<th>%</th>
<th>TLV</th>
<th>STEL</th>
<th>ES- TWA</th>
<th>ES- STEL</th>
<th>ES- PEAK</th>
<th>PEL</th>
<th>STEL</th>
<th>IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDA-40B (ETHANOL)</td>
<td>64-17-5</td>
<td>KG6300000</td>
<td>200-578-6</td>
<td>&lt; 50.0</td>
<td>1000</td>
<td>NE</td>
<td>1000</td>
<td>NE</td>
<td>1000</td>
<td>NE</td>
<td>NE</td>
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<tr>
<td>WATER (AQUA)</td>
<td>7732-18-5</td>
<td>ZC0110000</td>
<td>231-791-2</td>
<td>&lt; 40.0</td>
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<td>NE</td>
<td>NE</td>
<td>NF</td>
<td>NF</td>
<td>NF</td>
<td>NF</td>
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<tr>
<td>POLYQUATERNIUM-37</td>
<td>68555-36-2</td>
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<td>NA</td>
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<tr>
<td>FRAGRANCE (PARFUM)</td>
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<td>NA</td>
<td>NA</td>
<td>&lt; 2.0</td>
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<td>NA</td>
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<td>NA</td>
<td>NA</td>
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<tr>
<td>LIMONENE</td>
<td>5987-27-5</td>
<td>NA</td>
<td>NA</td>
<td>&lt; 1.0</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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</tr>
<tr>
<td>LINALOOL</td>
<td>78-70-6</td>
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<td>&lt; 1.0</td>
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<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>POLYSORBATE-20</td>
<td>9005-64-5</td>
<td>TR7400000</td>
<td>500-018-3</td>
<td>&lt; 2.0</td>
<td>NA</td>
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<td>NA</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>MENTHOL</td>
<td>89-78-1</td>
<td>OT0350000</td>
<td>201-939-0</td>
<td>&lt; 1.0</td>
<td>NA</td>
<td>NA</td>
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<td>NA</td>
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<tr>
<td>HYPNEA MUSCIFORMIS EXTRACT</td>
<td>223751-71-1</td>
<td>NA</td>
<td>NA</td>
<td>&lt; 0.5</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>GELIDIOLA ACEROSA EXTRACT</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>&lt; 0.5</td>
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<td>NA</td>
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<tr>
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<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>&lt; 0.5</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>SORBITOL</td>
<td>50-70-4</td>
<td>LZ4290000</td>
<td>200-061-5</td>
<td>&lt; 0.5</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>ALOE BARBADENSIS LEAF JUICE</td>
<td>85507-49-3</td>
<td>NA</td>
<td>287-390-8</td>
<td>&lt; 0.4</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

OTHER COMPONENTS PRESENT IN LESS THAN 1% CONCENTRATION BAL THE REMAINING COMPONENTS DO NOT CONTRIBUTE ANY SIGNIFICANT ADDITIONAL HAZARDS

4. FIRST AID MEASURES

4.1 First Aid:

**INGESTION:** DO NOT INDUCE VOMITING. Contact ChemTrec at +1 (703) 527-3887 or the nearest Poison Control Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim’s head lowered (forward) to reduce the risk of aspiration.

**SKIN:** If irritation occurs & product is on the skin, wash affected area with plenty of soap & water. If irritation, redness or swelling persists, consult a physician.

**EYES:** If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes.

**INHALATION:** Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial respiration. Seek immediate medical attention.

4.2 Medical Conditions Aggravated by Exposure:

Pre-existing dermatitis, other skin conditions, and disorders of the target organs (eyes, skin, respiratory system).
5. FIREFIGHTING MEASURES

5.1 Flashpoint & Method:
75.2 °F (24 °C) TCC

5.2 Autoignition Temperature:
ND

5.3 Flammability Limits:
Lower Explosive Limit (LEL): NE
Upper Explosive Limit (UEL): NE

5.4 Fire & Explosion Hazards:
This product is a flammable liquid. When involved in a fire, this product may ignite and decompose to form toxic gases (e.g., CO, CO₂, NOₓ).

5.5 Extinguishing Methods:
Water, Foam, CO₂ or Dry Chemical, as authorized.

5.6 Firefighting 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 environmentally sensitive areas. If necessary, rinse contaminated equipment with soapy water before returning to service.

HATCH CODE: 2J1J

6. ACCIDENTAL RELEASE MEASURES

6.1 Spills:
Eliminate ignition sources. Clean up promptly to avoid slip hazard. 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) and secure all sources of ignition. 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 spills ≥ 1 gallon (3.785 liters), deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Transfer liquid to containers for recovery or disposal and solid diluting material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING & STORAGE INFORMATION

7.1 Work & Hygiene Practices:
Use in a well-ventilated location (e.g., local exhaust ventilation, fans). Do not eat, drink, or smoke while handling this product.

7.2 Storage & Handling:
Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Keep containers securely closed when not in use. Keep away from children at all times!
Keep away from incompatible materials listed in Section 10. Do not store in damaged or unmarked containers or storage devices.
Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care.

7.3 Special Precautions:
Spilled material may present slipping hazard. Clean spills immediately.
8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 Ventilation & Engineering Controls:
Use with adequate ventilation (e.g., open doors and windows, local exhaust ventilation). Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station).

8.2 Respiratory Protection:
No special respiratory protection is required under typical circumstances of use or handling. When working with large quantities (> 1 gallon (3.785 liters)) or in instances where vapors 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.

8.3 Eye Protection:
No special eye protection is required under typical circumstances of use or handling. When working with large quantities (e.g., > 1 gallon (3.785 liters)), use protective eyewear when cleaning spills or leaks.

8.4 Hand Protection:
Under normal conditions of handling & use, hand protection is not required. When working with large quantities (e.g., > 1 gallon (3.785 liters)), use wear rubber or impervious plastic gloves.

8.5 Body Protection:
Under normal conditions of handling & use, hand protection is not required.

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9. PHYSICAL & CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>~0.9 (water=1)</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>ND</td>
</tr>
<tr>
<td>Melting Point</td>
<td>NE</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&gt;1 (n-BuAc=1)</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>ND</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>NE</td>
</tr>
<tr>
<td>Appearance &amp; Color</td>
<td>Pale green gel with an aromatic peppermint odor.</td>
</tr>
<tr>
<td>Odor Thresholds</td>
<td>NE</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble</td>
</tr>
<tr>
<td>pH</td>
<td>5.0</td>
</tr>
<tr>
<td>Viscosity</td>
<td>75,000 cps</td>
</tr>
<tr>
<td>Other Information</td>
<td>Vapor density (air=1): &gt; 1</td>
</tr>
</tbody>
</table>

10. STABILITY & REACTIVITY

10.1 Stability:
Relatively stable under ambient conditions when stored properly.

10.2 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 & nitrogen).

10.3 Hazardous Polymerization:
Will not occur.

10.4 Conditions to Avoid:
Exposure or contact to extreme temperatures, incompatible chemicals, strong light sources, sparks, flame.

10.5 Incompatible Substances:
Strong oxidizers, peroxides or strong acids.
11. TOXICOLOGICAL INFORMATION

11.1 Toxicity Data:
This product has not been tested on animals to obtain toxicity data. There are toxicity data for the components of this product, which are found in the scientific literature. These data have not been presented in this document.

11.2 Acute Toxicity:
See section 2.5

11.3 Chronic Toxicity:
See section 2.6

11.4 Suspected Carcinogen:
NA

11.5 Reproductive Toxicity:
This product is not reported to cause reproductive toxicity in humans.

Mutagenicity:
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 product is not reported to cause teratogenic effects in humans.

Reproductive Toxicity:
This product is not reported to cause reproductive effects in humans.

11.6 Proliferation of Product:
See section 2.3

11.7 Biological Exposure Indices:
NA

11.8 Physician Recommendations:
Treat symptomatically.

12. ECOLOGICAL INFORMATION

12.1 Environmental Stability:
This product will slowly volatilize from soil. Components of this product will slowly decompose into organic compounds.

12.2 Effects on Plants & Animals:
There is no specific data available for this product.

12.3 Effects on Aquatic Life:
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 MSDS.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Disposal:
Dispose of in accordance with federal, state or local regulations.

13.2 Special Considerations:
U.S. EPA Characteristic Waste: D001 (Ignitable)
# Material Safety Data Sheet

**Prepared by:** OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards

**MSDS Revision:** 7.0  
**MSDS Revision Date: 04/01/2008**

## 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, SCT, ADGR and the CTDGR.

<table>
<thead>
<tr>
<th>14.1</th>
<th>49 CFR (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSUMER COMMODITY, ORM-D (≤ 5.0 L)</td>
<td></td>
</tr>
<tr>
<td>ETHANOL SOLUTION, 3, II (&gt; 5.0 L)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.2</th>
<th>IATA (AIR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSUMER COMMODITY, ORM-D (≤ 0.5 L)</td>
<td></td>
</tr>
<tr>
<td>UN1170, ETHANOL SOLUTION, 3, III, LTD QTY (&gt; 0.5 L ≤ 1.0 L)</td>
<td></td>
</tr>
<tr>
<td>UN1170, ETHANOL SOLUTION, 3, II (&gt; 1.0 L)</td>
<td></td>
</tr>
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<table>
<thead>
<tr>
<th>14.3</th>
<th>IMDG (OCN)</th>
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<td>UN1170, ETHANOL SOLUTION, 3, III, LTD QTY (≤ 5.0 L)</td>
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</tr>
<tr>
<td>UN1170, ETHANOL SOLUTION, 3, III (&gt; 5.0 L)</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.4</th>
<th>TDRG (Canadian GND)</th>
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</thead>
<tbody>
<tr>
<td>MARK PACKAGE &quot;LIMITED QUANTITY&quot; or &quot;QUANTITÉ LIMITÉE&quot; or &quot;LTD QTY&quot; or &quot;QUANT LTÉE&quot; (≤ 5.0 L)</td>
<td></td>
</tr>
<tr>
<td>UN1170, ETHANOL SOLUTION, 3, III (&gt; 5.0 L)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.5</th>
<th>ADR/RID (EU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN1170, ETHYL ALCOHOL SOLUTION, 3, 3°(c), ADR, LTD QTY</td>
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<table>
<thead>
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<th>14.6</th>
<th>SCT (Mexico)</th>
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<tbody>
<tr>
<td>UN1170, ETANOL EN SOLUCIÓN, 3, III, (≤ 5.0 L) CANTIDAD LIMITADA</td>
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<table>
<thead>
<tr>
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## 15. Regulatory Information

<table>
<thead>
<tr>
<th>15.1</th>
<th>U.S. EPA SARA Title III Reporting Requirements:</th>
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<table>
<thead>
<tr>
<th>15.2</th>
<th>U.S. EPA SARA Title III Threshold Planning Quantity (TPQ):</th>
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<tbody>
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<table>
<thead>
<tr>
<th>15.3</th>
<th>U.S. TSCA Inventory Status:</th>
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</thead>
<tbody>
<tr>
<td>All components of this product are listed in the TSCA Inventory or are exempt.</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>15.4</th>
<th>U.S. CERCLA Reportable Quantity (RPQ):</th>
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<table>
<thead>
<tr>
<th>15.5</th>
<th>Other U.S. Federal Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>This product complies with the appropriate sections of the Food and Drug Administration’s 21 CFR subchapter G (Cosmetics).</td>
<td></td>
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<table>
<thead>
<tr>
<th>15.6</th>
<th>Other Canadian Regulations:</th>
</tr>
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<tbody>
<tr>
<td>This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSD. None of the components of this product are listed on the Priorities Substances List, Class C1 Flammable liquid.</td>
<td></td>
</tr>
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<table>
<thead>
<tr>
<th>15.7</th>
<th>U.S. State Regulatory Information:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol is covered under specific state criteria. No components of this mixture are listed in the California Proposition 65 Lists.</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>15.8</th>
<th>European Union 67/548/EEC and Australia NOHSC:2011 Requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>The primary component of this product is listed in Annex I of EU Directive 67/548/EEC:</td>
<td></td>
</tr>
<tr>
<td>Ethanol: Flammable (F): R: 11/20/21/22/36/37/38/40 - Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect. Possible risk of irreversible effects. S: 7/16/24/25/36/37/39/45 - Keep container tightly closed. Keep away from sources of ignition -- No smoking. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately.</td>
<td></td>
</tr>
</tbody>
</table>

| Hazard Code: 201E |
16. OTHER INFORMATION

16.1 Other Information:
WARNING: FLAMMABLE! Keep away from heat or flame. Product may present slipping hazard when walking on wet surfaces. Use only as directed. Do not ingest. If swallowed, do not induce vomiting; seek medical attention. Avoid eye contact. Keep out of reach of children. If redness or other signs of adverse reaction occur, discontinue use immediately. If irritation persists, seek medical attention.

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 ShipMate's & Creative Nail Design's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

16.4 Prepared for:
Creative Nail Design, Inc.
A Division of Colomer U.S.A., Inc.
1125 Joshua Way
Vista, CA 92081 USA
(800) 833-NAIL (6245) phone
(760) 599-2900
telephone
(760) 599-4005 fax
http://www.cnd.com/

16.5 Prepared by:
ShipMate, Inc.
PO Box 387
Sisters, OR 97759-0787 USA
Phone: +1 (310) 370-3600
Fax: +1 (310) 370-5700
e-mail: shipmate@shipmate.com
MATERIAL SAFETY DATA SHEET

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

PERSONAL PROTECTION RATINGS:

A Safety Glasses
B Splash Goggles
C Face Shield & Eye Protection
D Gloves
E Boots
F Synthetic Apron
G Dust Respirator
H Full Face Respirator
I Airline Hood/Mask or
J Airline Respirator
K Note: the dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.
L Consult your supervisor or S.O.P. for special handling directions.

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 igniting spark
UEL Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an igniting source

OTHER STANDARD ABBREVIATIONS:

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

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

HAZARD RATINGS:

0 Health
1 Flammability
2 Reactivity
3 Special Precautions

TOXICOLOGICAL INFORMATION:

LD₅₀ Lethal Dose (solids & liquids) which kills 50% of the exposed animal
LC₅₀ Lethal concentration (gases) which kills 50% of the exposed animal
ppm Concentration expressed in parts of material per million parts
TD₅₀ Lowest dose to cause a symptom
TC₅₀ Lowest concentration to cause a symptom
TD₆₀, LD₆₀, & LC₆₀, or TC₆₀, LC₆₀, & UC₆₀, Lowest dose or (concentration) to cause lethal or toxic effects
IARC International Agency for Research on Cancer
NTP National Toxicology Program
TRCA Registry of Toxic Effects of Chemical Substances
BCF Bioconcentration Factor
Le Median threshold limit
log Kow or log Koc Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS Canadian Workplace Hazardous Materials Information System
DOT U.S. Department of Transportation
TC Transport Canada
EPA U.S. Environmental Protection Agency
DSL Canadian Domestic Substance List
NDSD Canadian Non-Domestic Substance List
PSL Canadian Priority Substances List
TSCA U.S. Toxic Substance Control Act
CPR Canada's Controlled Product Regulations

EC INFORMATION:

WHMIS INFORMATION: