1. PRODUCT & COMPANY IDENTIFICATION

1.1 Product Name: OPI MATTE TOP COAT

1.2 Chemical Name: Solvent Mixture

1.3 Synonyms:

1.4 Trade Names: NT 135

1.5 Product Use: Cosmetic Use Only

1.6 Distributor’s Name: OPI Products, Inc.

1.7 Distributor’s Address: 13034 Saticoy Street, No. Hollywood, CA 91605 USA

1.8 Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 16377)

1.9 Business Phone / Fax: +1 (818) 759-2400 / +1 (818) 759-5776

2. HAZARDS IDENTIFICATION

2.1 Hazard Identification: This product is classified as a hazardous substance but not as dangerous goods according to the classification criteria of [NOHSC: 1088 (2004)] and ADG Code (Australia).

DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS.

Classification: Flam. Liq. 2; Skin Irrit. 2A; Eye Irrit. 2B; STOT SE 3


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>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL ACETATE</td>
<td>141-75-8</td>
<td>AH5250000</td>
<td>205-504-4</td>
<td>40-70</td>
<td>400</td>
<td>400</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>2000</td>
<td>400 TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Flam. Liq. 2; Acute Tox.- Inh. 5; Eye Irrit. 2A; STOT SE 3; H225, H319, H333, H336</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>BUTYL ACETATE</td>
<td>123-86-4</td>
<td>AF7350000</td>
<td>204-658-1</td>
<td>10-30</td>
<td>150</td>
<td>200</td>
<td>150</td>
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<td>200</td>
<td>200</td>
<td>1700</td>
<td>100 NIOSH</td>
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<td></td>
<td>Flam. Liq. 3; STOT SE 3; H226, H336</td>
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<td>QW0970000</td>
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<td>200</td>
<td>2000</td>
<td>400 TWA</td>
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<tr>
<td></td>
<td></td>
<td>Flam. Liq. 2; H225</td>
<td></td>
<td></td>
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<tr>
<td>HYDRATED SILICA</td>
<td>134-50-2</td>
<td>VV8550000</td>
<td>215-683-2</td>
<td>1-5</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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<td>NA</td>
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<tr>
<td>TRIMETHYL PENTANYL DIISOBUTRATE</td>
<td>6846-50-0</td>
<td>AF7350000</td>
<td>229-934-9</td>
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<td>200</td>
<td>150</td>
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<td>200</td>
<td>200</td>
<td>1700</td>
<td>150 TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aquatic Chronic 4; Skin Irrit. 2; Eye Irrit. 2; STOT RE 2; H413, H315, H319, H373</td>
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</tr>
<tr>
<td>ADIPIC ACID / NEOPENTYL GLYCOL / TRIMELLITIC ANHYDRIDE COPOLYMER</td>
<td>28407-73-0</td>
<td>NA</td>
<td>NA</td>
<td>1-5</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>
<td>Skin Sens. 1; H317</td>
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<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>67-63-0</td>
<td>NT8050000</td>
<td>200-661-7</td>
<td>1-5</td>
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<td>500</td>
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<td>500</td>
<td>400</td>
<td>500</td>
<td>2000</td>
<td>400 TWA</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 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.

**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.

**Inhalation:** Remove victim to fresh air at once.
## 4. FIRST AID MEASURES – cont’d

<table>
<thead>
<tr>
<th>Effects of Exposure</th>
<th>Ingestion</th>
<th>If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Eyes:</td>
<td>Irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering.</td>
</tr>
<tr>
<td></td>
<td>Skin:</td>
<td>May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact.</td>
</tr>
<tr>
<td></td>
<td>Inhalation:</td>
<td>Vapors 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. Inhalation of vapors exceeding the levels listed in Section 3 (Composition and Ingredient Information) can cause central nervous system depression (e.g., drowsiness, dizziness, headaches, nausea).</td>
</tr>
</tbody>
</table>

| Symptoms of Overexposure | | Symptoms of skin overexposure in individuals may include redness, itching, and irritation of affected areas. Overexposure in eyes may cause redness, itching and watering. |

<table>
<thead>
<tr>
<th>Acute Health Effects</th>
<th>Mild to moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic Health Effects</td>
<td>None known.</td>
</tr>
<tr>
<td>Target Organs</td>
<td>Eyes, Skin, Respiratory System.</td>
</tr>
</tbody>
</table>

### 4.7 Medical Conditions Aggravated by Exposure:

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

## 5. FIREFIGHTING MEASURES

### 5.1 Fire & Explosion Hazards:

**WARNING:** **EXTREMELY FLAMMABLE!** Keep away from heat, lit cigarettes, sparks & open flame. Keep container closed.

### 5.2 Extinguishing Methods:

- CO₂, Halon (if permitted), Dry Chemical, Foam, as authorized.

### 5.3 Firefighting Procedures:

- This product is a Class IB flammable liquid. When involved in a fire, this product will ignite readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container.

- 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.

- **HazChem Code:** 3(Y)E

## 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 (3.8 L)) 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 large spills** (e.g., ≥ 1 gallon (3.8 L)), 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 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 product.

### 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).

### 7.3 Special Precautions:

- 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.
8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1. Exposure Limits: ppm (mg/m³)

<table>
<thead>
<tr>
<th>CHEMICAL NAME(S)</th>
<th>ACGIH</th>
<th>NOHSC</th>
<th>OSHA</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TLV</td>
<td>STEL</td>
<td>ES-</td>
<td>PEAK</td>
</tr>
<tr>
<td>ETHYL ACETATE</td>
<td>400</td>
<td>400</td>
<td>200</td>
<td>NA</td>
</tr>
<tr>
<td>BUTYL ACETATE</td>
<td>150</td>
<td>200</td>
<td>150</td>
<td>200</td>
</tr>
<tr>
<td>NITROCELLULOSE</td>
<td>400</td>
<td>400</td>
<td>200</td>
<td>NA</td>
</tr>
<tr>
<td>TRIMETHYL PENTANYL</td>
<td>150</td>
<td>200</td>
<td>150</td>
<td>200</td>
</tr>
<tr>
<td>DISOBUTYRATE</td>
<td>150</td>
<td>200</td>
<td>150</td>
<td>200</td>
</tr>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>400</td>
<td>500</td>
<td>400</td>
<td>500</td>
</tr>
</tbody>
</table>

8.2. Ventilation & Engineering Controls:
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.

8.3. Respiratory Protection:
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.

8.4. Eye Protection:
Wear protective eyewear (e.g., safety glasses with side-shield) at all times, especially when cleaning spills or leaks. In addition, contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants.

8.5. Hand Protection:
AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. If anticipated that prolonged & 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 Canada, the E.C. member states.

8.6. Body Protection:
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.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1. Appearance:
Clear, slightly opaque viscous gel liquid

9.2. Odor:
Characteristic

9.3. Odor Threshold:
ND

9.4. pH:
NA

9.5. Melting Point/Freezing Point:
NA

9.6. Initial Boiling Point/Boiling Range:
78 ºC (173 ºF)

9.7. Flashpoint:
- 4 ºC (24 ºF) estimated

9.8. Upper/Lower Flammability Limits:
Upper 19.0 / Lower 1.7

9.9. Vapor Pressure:
NA

9.10. Vapor Density:
NA

9.11. Relative Density:
0.97000 - 1.1000

9.12. Solubility:
Partially soluble

9.13. Partition Coefficient (log P<sub>ow</sub>):
NA

9.14. Autoignition Temperature:
NA

9.15. Decomposition Temperature:
NA

9.16. Viscosity:
1,000 – 3,000 cPs

9.17. Other Information:
Evaporation Rate: < 1.0 (n-BuAc = 1.0)

10. STABILITY & REACTIVITY

10.1. Stability:
Stable under ambient conditions when stored properly (See Section 7, Storage and Handling).

10.2. Hazardous Decomposition Products:
If exposed to extremely high temperatures, the products of thermal decomposition may include irritating vapors and carbon oxide gases (e.g., CO, CO₂).

10.3. Hazardous Polymerization:
May occur, if exposed to extremely high temperatures.

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

10.5. Incompatible Substances:
None known.

11. TOXICOLOGICAL INFORMATION

11.1. Routes of Entry:

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Intravenous</th>
<th>Absorption</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

11.2. Toxicity Data:
This product has NOT been tested on animals to obtain toxicity data. Toxicology data, found in scientific literature, is available for some of the components of the product and is presented below:
Ethyl Acetate: LD<sub>50</sub> (oral, rat) = 5,620 mg/kg; LD<sub>50</sub> (oral, mouse) = 4,100 mg/kg; LC<sub>50</sub> (inh-6h, rat) = 16,000 ppm

11.3. Acute Toxicity:
See Section 4.4

11.4. Chronic Toxicity:
See Section 4.5

11.5. Suspected Carcinogen:
This product contains Ethyl Acetate and Isopropyl Alcohol, which are not carcinogenic to humans, but are listed as Group 3 carcinogens by the IARC.
11. TOXICOLOGICAL INFORMATION – cont’d

11.6 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.

11.7 Irritancy of Product: See Section 4.3

11.8 Biological Exposure Indices: NE

11.9 Physician Recommendations: Treat symptomatically.

12. ECOLOGICAL INFORMATION

12.1 Environmental Stability: The components of this product will slowly degrade over time into a variety of organic compounds. Specific environmental data available for the components of this product are as follows: Ethyl Acetate: $K_{OC} = 0.73$. Water solubility: 64,000 mg/l. Bioconcentration Factor = 4-14. Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environments from volatilization, and biodegradation. This compound’s half-life in water is 6.1 hours.

Butyl Acetate: $K_{OC} = 1.82$. Water solubility: 120 parts H2O at 25°C (77°F). Bioconcentration Factor = 4-14. Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environments from volatilization, and biodegradation. This compound’s half-life in water is 6.1 hours.

Isopropyl Alcohol: Log $K_{OW} = 0.05-0.14$. Isopropyl alcohol occurs naturally; it is generated during microbial degradation of plant and animal wastes. When released on land or water, it is apt to volatilize and biodegrade. The estimated half-life in water is 5.4 days. Isopropyl alcohol is not expected to bioconcentrate.

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

12.3 Effects on Aquatic Life: 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.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Disposal: Waste disposal must be in accordance with appropriate Federal, state, and local regulations.

13.2 Special Considerations: U.S. EPA Waste Number: D001 (characteristic - ignitable)

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 and the CTDGR.

14.1 49 CFR (GND): UN1263, PAINT, 3, II, LTD QTY (IP VOL ≤ 1.0 L) or CONSUMER COMMODITY, ORM-D – until 01/01/2021

14.2 IATA (AIR): ID8000, CONSUMER COMMODITY, 9 (IP VOL ≤ 0.5 L)

14.3 IMDG (OCN): UN1263, PAINT, 3, II (IP VOL ≤ 1.0 L)

14.4 TDGR (Canadian GND): UN1263, PAINT, 3, II, LTD QTY (IP VOL ≤ 1.0 L) or “LIMITED QUANTITY” or “QUANTITÉ LIMITÉE” or “LTD QTY” or “QUANT LTÉE” (≤ 1.0 L)

14.5 ADR/RID (EU): UN1263, PAINT, 3, II, LTD QTY (IP VOL ≤ 1.0 L)

14.6 SCT (MEXICO): UN1263, PINTURA, 3, II, CANTIDAD LIMITADA (IP VOL ≤ 1.0 L)

14.7 ADGR (AUS): UN1263, PAINT, 3, II, LTD QTY (IP VOL ≤ 1.0 L)

* This product may also be shipped as an Excepted Quantity (Inner Package Volume ≤ 30 mL, Total Quantity ≤ 500 mL per Outer Package)

15. REGULATORY INFORMATION

15.1 SARA Reporting Requirements: This product contains Isopropanol, a substance subject to SARA Title III, Section 313 reporting requirements. This product contains Ethyl Acetate, a substance that is subject to SARA Title III, Section 304 reporting.

15.2 SARA Threshold Planning Quantity: There are no specific Threshold Planning Quantities for the components of this product.

15.3 TSCA Inventory Status: The components of this product are listed on the TSCA Inventory.

15.4 CERCLA Reportable Quantity (RQ): Ethyl Acetate: 2,270 kg (5,000 lbs); Butyl Acetate: 2,270 kg (5,000 lbs)

15.5 Other Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration’s 21 CFR subchapter G (Cosmetics).

15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the Safety Data Sheet 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. WHMIS B2, D2B (Flammable Liquid, Other Toxic Effects)
15. REGULATORY INFORMATION – cont’d

15.7 State Regulatory Information:
- **Butyl Acetate** is found on the following state criteria lists: California OSHA Hazardous Substances List (CA), Delaware Air Quality Management List (DE), Massachusetts Hazardous Substances List (MA), New Jersey Right-to-Know List (NJ), New York List of Hazardous Substances (NY), Pennsylvania Right-to-Know List (PA), and Washington Permissible Exposures List for Air Contaminants (WA), Wisconsin Hazardous Substances List (WI).
- **Ethyl Acetate** is found on the following state criteria lists: CA, DE, MA, MN, NJ, NY, PA, and WA.
- **Isopropanol** is found on the following state criteria lists: CA, DE, MA, and PA.
- 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 (CA65), Delaware Air Quality Management List (DE), 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).

15.8 Other Requirements: The primary components of this product are listed in Annex I of EU Directive 67/548/EEC:
- **Isopropanol**: Flammable (F). Risk Phrases (R): 11-36/37 – Highly flammable. Irritating to eyes and respiratory system. Safety Phrases (S): 2-7-16-24/25/26 – Keep out of the reach of children. Keep container tightly closed. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. OTHER INFORMATION

16.1 Other Information:
- **DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS.** Keep away from heat/sparks/open flame/hot surfaces – No Smoking. Keep container tightly closed. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash exposed skin areas thoroughly with soap and water after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/eye protection/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. Wash contaminated clothing before reuse. In case of fire, CO₂, Halon (if permitted), dry chemical, or foam for extinction. Store in a well-ventilated place. Keep cool. KEEP OUT OF REACH OF CHILDREN.

16.2 Terms & Definitions: See last page of this Safety Data Sheet.

16.3 Disclaimer: 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 & OPI’s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is 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: OPI Products, Inc.
13034 Saticoy Street
No. Hollywood, CA 91605 USA
Tel: +1 (818) 759-2400
Fax: +1 (818) 759-5776
http://www opi.com

16.5 Prepared by: ShipMate, Inc.
P.O. Box 787
Sisters, Oregon 97759-0787 USA
Tel: +1 (310) 370-3800
Fax: +1 (310) 370-5700
http://www.shipmate.com
### PERSONAL PROTECTION RATINGS:

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Chemical Abstract Service Number</th>
</tr>
</thead>
</table>

### 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:

<table>
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<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Physical Hazards</th>
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### PERSONAL PROTECTION:

- **G**: Gloves
- **H**: Hoods
- **I**: Protective Clothing & Full Suit
- **J**: Airline Hood/Mask or SCBA
- **K**: Respirator or SCBA
- **X**: Consult your supervisor or SOPs for special handling directions.

### 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

### TOXICOLOGICAL INFORMATION:

- **LD₅₀**: Lethal Dose (solids & liquids) which kills 50% of the exposed animals.
- **LC₅₀**: Lethal concentration (gasses) which kills 50% of the exposed animal.

### 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
- **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)

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

- **C**: Corrosive
- **E**: Explosive
- **F**: Flammable
- **N**: Harmful
- **O**: Oxidizing
- **T**: Toxic
- **Xi**: Irritant
- **Xn**: Harmful

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

- **GHS01**: Explosive
- **GHS02**: Flammable
- **GHS03**: Oxidizing
- **GHS04**: Pressurized
- **GHS05**: Corrosive
- **GHS06**: Toxic
- **GHS07**: Harmful
- **GHS08**: Irritating
- **GHS09**: Health Hazard
- **GHS10**: Environment

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