


1. PRODUCT & COMPANY IDENTIFICATION

| | | |
|-----|------------------------|--|
| 1.1 | Product Name: | OPI SPEED CURE |
| 1.2 | Chemical Name: | NA |
| 1.3 | Synonyms: | NA |
| 1.4 | Trade Names: | MW162-174 |
| 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: | <p>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). DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. CAUSES SKIN IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.</p> <p><u>Classification:</u> Flam. Liq. 2; Acute Tox. 4; Skin Irrit. 2; STOT SE 3; Aquatic Chronic 2</p> <p><u>Hazard Statements (H):</u> H225 – Highly flammable liquid and vapor. H304 – May be fatal if swallowed and enters airways. H315 – Causes skin irritation. H336 – May cause drowsiness or dizziness. H411 – Toxic to aquatic life with long lasting effects.</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 vapors. P264 – Wash thoroughly after handling. P280 – Wear eye protection. P271 – Use only outdoors or in a well-ventilated area. P273 – Avoid release to the environment. P301 – IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331 – Do NOT induce vomiting. P302+P352 – IF ON SKIN: Wash with plenty of water. P312 – Specific treatment See Section 4 First Aid, of this SDS. P332+P313 – If skin irritation occurs: Get medical advice/attention. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P370+P378 – In case of fire: Use CO₂, Halon (if permitted), Dry Chemical, Foam, as authorized to extinguish. P391 – Collect spillage. P403+P235 – Store in a well-ventilated place. Keep cool. P405 – Store locked up. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).</p> |  |
|-----|------------------------|---|--|

3. COMPOSITION & INGREDIENT INFORMATION

| CHEMICAL NAME(S) | CAS No. | RTECS No. | EINECS No. | % | EXPOSURE LIMITS IN AIR (mg/m ³) | | | | | | | | | OTHER |
|--------------------|--|-----------|------------|---------|---|------|--------|---------|---------|------|------|------|--|-------|
| | | | | | ACGIH | | NOHSC | | | OSHA | | | | |
| | | | | | ppm | | ppm | | | ppm | | | | |
| | | | | | TLV | STEL | ES-TWA | ES-STEL | ES-PEAK | PEL | STEL | IDLH | | |
| HEXANE | 110-54-3 | MN9275000 | 203-777-6 | 60-100 | 50 | 1000 | 20 | 72 | NF | 500 | NA | 1100 | | |
| | Flam. Liq.2; Asp. Tox.1; Skin Irrit.2; STOS SE3; Repr.2; STOT RE2; Aquatic Chronic 2; H225, H304, H315, H336, H361, H373, H411 | | | | | | | | | | | | | |
| DIMETHYLTOLYLAMINE | 99-97-8 | XU5803000 | 202-805-4 | 0.1-1.0 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| | Acute Tox. 3; STOT-SE 2; Aquatic Chronic 3; H301, H311, H331, H373, H412 | | | | | | | | | | | | | |


4. FIRST AID MEASURES

| | | |
|-----|------------|---|
| 4.1 | First Aid: | <p><u>Ingestion:</u> 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><u>Eyes:</u> 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.</p> <p><u>Skin:</u> If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.</p> <p><u>Inhalation:</u> Remove victim to fresh air at once.</p> |
|-----|------------|---|

4. FIRST AID MEASURES – cont'd

| | | | | | | | | | | | | | | | | | |
|-----------------------------|--|---|---------------|--|----------|---------------------|--|----------|-------------------------|--|----------|-----------------------------|--|----------|-------------|-------------|--|
| 4.2 | Effects of Exposure: | <p>Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression.</p> <p>Eyes: Irritating to eyes. Symptoms of overexposure may include redness, itching, irritation and watering.</p> <p>Skin: May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact.</p> <p>Inhalation: 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).</p> | | | | | | | | | | | | | | | |
| 4.3 | 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. | | | | | | | | | | | | | | | |
| 4.4 | Acute Health Effects: | Mild to moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. | | | | | | | | | | | | | | | |
| 4.5 | Chronic Health Effects: | No chronic health effects are known, although symptoms and discomfort may occur for several days following overexposure. | | | | | | | | | | | | | | | |
| 4.6 | Target Organs: | Eyes, Skin, Respiratory System. | | | | | | | | | | | | | | | |
| 4.7 | Medical Conditions Aggravated by Exposure: | None known | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <td colspan="2">HEALTH</td> <td>1</td> </tr> <tr> <td colspan="2">FLAMMABILITY</td> <td>3</td> </tr> <tr> <td colspan="2">PHYSICAL HAZARDS</td> <td>0</td> </tr> <tr> <td colspan="2">PROTECTIVE EQUIPMENT</td> <td>B</td> </tr> <tr> <td>EYES</td> <td>SKIN</td> <td></td> </tr> </table> | HEALTH | | 1 | FLAMMABILITY | | 3 | PHYSICAL HAZARDS | | 0 | PROTECTIVE EQUIPMENT | | B | EYES | SKIN | |
| HEALTH | | 1 | | | | | | | | | | | | | | | |
| FLAMMABILITY | | 3 | | | | | | | | | | | | | | | |
| PHYSICAL HAZARDS | | 0 | | | | | | | | | | | | | | | |
| PROTECTIVE EQUIPMENT | | B | | | | | | | | | | | | | | | |
| EYES | SKIN | | | | | | | | | | | | | | | | |

5. FIREFIGHTING MEASURES

| | | | |
|-----|---------------------------|---|--|
| 5.1 | Fire & Explosion Hazards: | DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR! Keep away from heat, lit cigarettes, sparks & open flame. Keep container closed. |  |
| 5.2 | Extinguishing Methods: | CO ₂ , Halon (if permitted), Dry Chemical, Foam, as authorized. | |
| 5.3 | Firefighting Procedures: | <p>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.</p> <p>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.</p> <p>HazChem Code: 3(Y)E Hazard Identification Number: 33</p> | |

6. ACCIDENTAL RELEASE MEASURES

| | | |
|-----|---------|--|
| 6.1 | Spills: | <p>Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment.</p> <p>For <u>small spills</u> (e.g., <1 gallon) 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.</p> <p>For <u>large spills</u> ≥ 1 gallon, 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 drains, municipal sewers and open bodies of water.</p> |
|-----|---------|--|

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. |

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

SDS Revision: 3.1

SDS Revision Date: 2/8/2016

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

| 8.1 | Exposure Limits: ppm (mg/m ³) | ACGIH | | NOHSC | | | OSHA | | | OTHER |
|-----|--|--|------|--------|---------|---------|------|------|------|-------|
| | | TLV | STEL | ES-TWA | ES-STEL | ES-PEAK | PEL | STEL | IDLH | |
| | | CHEMICAL NAME(S) HEXANE | | | | | | | | |
| 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, EU member states, or Australia. | | | | | | | | |
| 8.4 | Eye Protection: | 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. | | | | | | | | |
| 8.5 | Hand Protection: | 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, of the EU member states. | | | | | | | | |
| 8.6 | Body Protection: | No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA. | | | | | | | | |

9. PHYSICAL & CHEMICAL PROPERTIES

| | | |
|------|---|--------------------------|
| 9.1 | Appearance: | Clear thin liquid |
| 9.2 | Odor: | Characteristic odor |
| 9.3 | Odor Threshold: | ND |
| 9.4 | pH: | NA |
| 9.5 | Melting Point/Freezing Point: | NA |
| 9.6 | Initial Boiling Point/Boiling Range: | 60 °C (140 °F) |
| 9.7 | Flashpoint: | - 4 °C (24 °F) estimated |
| 9.8 | Upper/Lower Flammability Limits: | UEL 5.9; LEL 1.1 |
| 9.9 | Vapor Pressure: | NA |
| 9.10 | Vapor Density: | NA |
| 9.11 | Relative Density: | 0.787 |
| 9.12 | Solubility: | Moderate |
| 9.13 | Partition Coefficient (log P _{ow}): | NA |
| 9.14 | Autoignition Temperature: | 288 °C (550 °F) |
| 9.15 | Decomposition Temperature: | NA |
| 9.16 | Viscosity: | Non-viscous |
| 9.17 | Other Information: | NA |

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, CO ₂). |
| 10.3 | Hazardous Polymerization: | May occur, if exposed to extremely high temperatures. |
| 10.4 | Conditions to Avoid: | This product is incompatible with strong oxidizers (e.g., peroxides, superoxides), strong acids (e.g., hydrochloric or muriatic acids), or strong bases (e.g., lye, potassium hydroxide). |
| 10.5 | Incompatible Substances: | None known. |

11. TOXICOLOGICAL INFORMATION

| | | | | |
|------|------------------------|---|-----------------|----------------|
| 11.1 | Routes of Entry: | Inhalation: YES | Absorption: YES | Ingestion: YES |
| 11.2 | Toxicity Data: | 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 and are presented below: Hexane: LD50 (oral, rat): 25,000 | | |
| 11.3 | Acute Toxicity: | See Section 4.4 | | |
| 11.4 | Chronic Toxicity: | See Section 4.5 | | |
| 11.5 | Suspected Carcinogen: | No | | |
| 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. | | |

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

SDS Revision: 3.1

SDS Revision Date: 2/8/2016

11. TOXICOLOGICAL INFORMATION – cont'd

| | | |
|------|------------------------------|-----------------------|
| 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 is available for the components of this product, but are not presented in this document. |
| 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. |

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): | CONSUMER COMMODITY, ORM-D UN1993, FLAMMABLE LIQUIDS, N.O.S., (HEXAMETHYLDISILOXANE, ISOPARAFFIN), 3, II LTD QTY (IP ≤ 1.0 L) |  |
| 14.2 | IATA (AIR): | CONSUMER COMMODITY, 9, ID8000 (IP ≤ 0.5 L) UN1993, FLAMMABLE LIQUIDS, N.O.S., (HEXANE, DIMETHYLTOLYAMINE), 3, II (> 0.5 L) | |
| 14.3 | IMDG (OCN): | UN1993, FLAMMABLE LIQUIDS, N.O.S., (HEXANE, DIMETHYLTOLYAMINE), 3, II, LTD QTY (≤ 1.0 L) UN1993, FLAMMABLE LIQUIDS, N.O.S., (HEXANE, DIMETHYLTOLYAMINE), 3, II (> 1.0 L) | |
| 14.4 | TDGR (Canadian GND): | MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 1.0 L) UN1993, FLAMMABLE LIQUIDS, N.O.S., (HEXANE, DIMETHYLTOLYAMINE), 3, II (> 1.0 L) | |
| 14.5 | ADR/RID (EU): | UN1993, FLAMMABLE LIQUIDS, N.O.S., (HEXANE, DIMETHYLTOLYAMINE), 3, II, ADR, LTD QTY (≤ 1.0 L) UN1993, FLAMMABLE LIQUIDS, N.O.S., (HEXANE, DIMETHYLTOLYAMINE), 3, II, ADR (> 1.0 L) | |
| 14.6 | SCT (MEXICO): | UN1993, LIQUIDOS INFLAMABLES, N.E.P., (HEXANE, DIMETHYLTOLYAMINE), 3, II CANTIDAD LIMITADA (≤ 1.0 L) | |
| 14.7 | ADGR (AUS): | UN1993, FLAMMABLE LIQUIDS, N.O.S., (HEXANE, DIMETHYLTOLYAMINE), 3, II (> 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 <u>Hexane</u> , a substance subject to SARA Title III, Section ion 313 reporting requirements. |  |
| 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 or are otherwise exempt. | |
| 15.4 | CERCLA Reportable Quantity (RQ): | <u>Hexane</u> : 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) | |
| 15.7 | State Regulatory Information: | <u>Hexane</u> is found on the following state criteria list:), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ Pennsylvania Right-to-Know List (PA), and Washington Permissible Exposures List (WA). 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. REGULATORY INFORMATION – cont'd

| | | | |
|------|---------------------|--|---|
| 15.8 | Other Requirements: | <p>The primary components of this product are listed in Annex I of EU Directive 67/548/EEC:</p> <p><u>Hexane</u>: Flammable (F); Harmful (Xn); Environmental Danger (N). <u>Risk Phrases</u> (R): 11-38-48/20-62-65-67-51/53 – Highly flammable. Irritating to skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of impaired fertility. Harmful: may cause lung damage if swallowed. Vapors may cause drowsiness or dizziness. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. <u>Safety Phrases</u> (S): 2-9-16-29-33-36/37-61-62 – keep out of reach of children. Keep container in a well-ventilated place. Keep away from sources of ignition- No smoking. Do not enter into drains. Take precautionary measures against static discharges. Wear suitable protective clothing and gloves. Avoid release to the environment. Refer to special instructions/safety data sheet. If swallowed, rinse mouth with water (only if the person is conscious).</p> |  |
|------|---------------------|--|---|

16. OTHER INFORMATION

| | | | |
|------|----------------------|---|--|
| 16.1 | Other Information: | <p>DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. CAUSES SKIN IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. 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.</p> | |
| 16.2 | Terms & Definitions: | See last page of this Safety Data Sheet. | |
| 16.3 | Disclaimer: | <p>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.</p> | |
| 16.4 | Prepared for: | <p>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</p> |  |
| 16.5 | Prepared by: | <p>ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com</p> |  |

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 |
|---------|----------------------------------|

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 |

| |
|---------------------|
| HEALTH |
| FLAMMABILITY |
| PHYSICAL HAZARDS |
| PERSONAL PROTECTION |

PERSONAL PROTECTION RATINGS:

| | |
|---|--|
| A | |
| B | |
| C | |
| D | |
| E | |
| F | |

| | |
|---|--|
| G | |
| H | |
| I | |
| J | |
| K | |
| X | Consult your supervisor or SOPs for special handling directions. |

| | | | |
|----------------------|-----------------------------------|----------------------------------|---------------------------|
| Safety Glasses | Splash Goggles | Face Shield & Protective Eyewear | Gloves |
| Boots | Synthetic Apron | Protective Clothing & Full Suit | Dust Respirator |
| Full Face Respirator | Dust & Vapor Half-Mask Respirator | Full Face 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 |

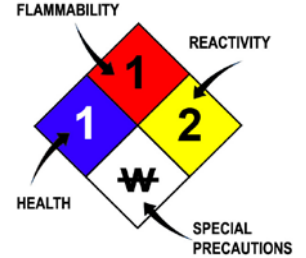
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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 |
| ACD | Acidic |
| ALK | Alkaline |
| COR | Corrosive |
| W | Use No Water |
| OX | Oxidizer |
| TREFOIL | Radioactive |



TOXICOLOGICAL INFORMATION:

| | |
|---|---|
| LD ₅₀ | Lethal Dose (solids & liquids) which kills 50% of the exposed animals |
| LC ₅₀ | Lethal concentration (gases) which kills 50% of the exposed animal |
| ppm | Concentration expressed in parts of material per million parts |
| TD ₁₀ | Lowest dose to cause a symptom |
| TCLo | Lowest concentration to cause a symptom |
| TD ₁₀ , LD ₁₀ , & LD ₀ or TC, TC ₀ , LC ₁₀ , & LC ₀ | 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 _m | Median threshold limit |
| log K _{OW} or log K _{OC} | 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:

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

EC (67/548/EEC) INFORMATION:

| | | | | | | | |
|-----------|-----------|-----------|---------|-----------|-------|----------|---------|
| | | | | | | | |
| 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 |