


1. PRODUCT & COMPANY IDENTIFICATION

| | | |
|-----|------------------------|---|
| 1.1 | Product Name: | OPI PEDIESSENTIALS MASSAGE |
| 1.2 | Chemical Name: | Botanical Oil Mixture |
| 1.3 | Synonyms: | PC V61; PC V63; PC V64; PC V62 |
| 1.4 | Trade Names: | PediEssentials Green Tea Massage; PediEssentials Tropical Massage; PediEssentials Orange Massage; PediEssentials Lavender Massage |
| 1.5 | Product Use: | Professional or Sundry 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 not classified as a hazardous substance or as dangerous goods according to the classification criteria of NOHSC: 1008 (2004) and ADG Code (Australia).</p> <p>WARNING! CAUSES MILD SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. MAY BE FATAL IF SWALLOWED.</p> <p><u>Classification:</u> Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2B</p> <p><u>Hazard Statements (H):</u> H304 – May be fatal if swallowed and enters airways. H316 – Causes mild skin irritation. H319 – Causes serious eye irritation.</p> <p><u>Precautionary Statements (P):</u> P264 – Wash thoroughly with soap and water after handling. P280 – Wear eye protection. P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337-P313 If eye irritation persist: Get medical advice/attention. P332 + P313 - If skin irritation occurs: Get medical advice/attention.</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 | | | | | | | |
| WATER (AQUA/ EAU) | 7732-18-5 | ZC0110000 | 231-191-2 | 60-100 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| MINERAL OIL (PARAFFINUM LIQUIDUM) | 8012-95-1 | PY8030000 | 232-384-4 | 5-10 | NA | NA | 5 | NF | NF | NA | NA | NA | MIST | |
| | Asp. Tox. 1; H304 | | | | | | | | | | | | | |
| PROPYLENE GLYCOL | 57-55-6 | TY200000 | 200-338-0 | 1-5 | NA | NA | 474 | NF | NF | NA | NA | NA | | |
| | Skin Irrit. 3; Eye Irrit. 2; H316, H320 | | | | | | | | | | | | | |
| CETYL ALCOHOL | 36653-82-4 | MM0225000 | 253-149-0 | 1-5 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| PARFUM (FRAGRANCE) | NA | NA | NA | 1-5 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| PERSEA GRATISSIMA (AVOCADO) OIL | 8024-32-6 | CI2680000 | 232-428-0 | 0.5-1 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| MAY ALSO CONTAIN: | | | | | | | | | | | | | | |
| LIMONENE | 138-86-3 | CS8100000 | 205-341-0 | 0.1-1.5 | NA | NA | NF | NF | NF | NA | NA | NA | ALLERGEN | |
| | Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1; H226, H315, H317, H400, H410 | | | | | | | | | | | | | |
| LINALOOL | 78-70-6 | RG5775000 | 201-134-4 | 0.1-1 | NA | NA | NF | NF | NF | NA | NA | NA | ALLERGEN | |
| | Flam. Liq. 4; Acute Tox. Oral 5; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H227, H303, H315, H319, H335 | | | | | | | | | | | | | |
| BENZYL SALICYLATE | 118-58-1 | VO1750000 | 204-262-9 | < 0.1 | NA | NA | NF | NF | NF | NA | NA | NA | ALLERGEN | |
| | Skin Sens. 1; Aquatic Chronic 2; H303, H317, H319, H371, H401 | | | | | | | | | | | | | |
| BUTYLPHENYL METHYLPROPIONAL | 80-54-6 | NA | 201-289-8 | < 0.1 | NA | NA | NF | NF | NF | NA | NA | NA | ALLERGEN | |
| | Acute Tox. Oral 4; Skin Irrit. 2; Aquatic acute 2; Aquatic Chronic 2; H302, H315, H319 | | | | | | | | | | | | | |
| HEXYL CINNAMAL | 101-86-0 | GD6560000 | 202-983-3 | < 0.1 | NA | NA | NF | NF | NF | NA | NA | NA | ALLERGEN | |
| | Skin Sens. 1B; Aquatic Chronic 2; H317, H411 | | | | | | | | | | | | | |
| CITRAL | 5392-40-5 | NA | 226-394-6 | < 0.1 | NA | NA | NF | NF | NF | NA | NA | NA | ALLERGEN | |
| | Skin Irrit. 2; Skin Sens. 1; H315, H317 | | | | | | | | | | | | | |
| CITRONELLOL | 106-22-9 | UT2975000 | 203-375-0 | < 0.1 | NA | NA | NF | NF | NF | NA | NA | NA | ALLERGEN | |
| | Skin. Irrit. 2; Skin Sens. 1B; Eye Irrit. 2, H315, H317, H319 | | | | | | | | | | | | | |
| CI 19140 (YELLOW 5) | 633-96-5 | NA | 211-199-0 | < 0.1 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| CI 42090 (BLUE 1) | 3844-45-9 | BQ4725000 | 223-339-8 | < 0.1 | NA | NA | NF | NF | NF | NA | NA | NA | | |


3. COMPOSITION & INGREDIENT INFORMATION – cont'd

| CHEMICAL NAME(S) | CAS No. | RTECS No. | EINECS No. | % | EXPOSURE LIMITS IN AIR (mg/m ³) | | | | | | | | | OTHER | |
|---------------------|-----------|-----------|------------|-------|---|------|-------|--------|---------|---------|-----|------|------|-------|--|
| | | | | | ACGIH | | NOHSC | | | OSHA | | | | | |
| | | | | | TLV | STEL | ppm | ES-TWA | ES-STEL | ES-PEAK | PEL | STEL | IDLH | | |
| CI 15510 (ORANGE 4) | 633-96-5 | NA | 211-199-0 | < 0.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| CI 14700 (RED 4) | 4548-53-2 | NA | 224-909-9 | < 0.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| CI 17200 (RED 33) | 3564-66-6 | NA | 222-656-9 | < 0.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |

4. FIRST AID MEASURES

| | | | | | | | | | | | | |
|-----------------------------|--|--|---------------|----------|---------------------|----------|-------------------------|----------|-----------------------------|----------|-------------|--|
| 4.1 | First Aid: | <p>Ingestion: If ingested, do not induce vomiting. 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. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.</p> <p>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.</p> <p>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.</p> <p>Inhalation: Remove victim to fresh air at once.</p> | | | | | | | | | | |
| 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: Direct contact may cause mild irritation to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering.</p> <p>Skin: May be irritating to skin in some sensitive individuals. The product can cause allergic skin reactions (e.g. rashes, welts, dermatitis) in some sensitive individuals.</p> <p>Inhalation: None expected.</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 | | | | | | | | | | |
| 4.5 | Chronic Health Effects: | None known. | | | | | | | | | | |
| 4.6 | Target Organs: | Eyes | | | | | | | | | | |
| 4.7 | Medical Conditions Aggravated by Exposure: | Pre-existing dermatitis, and other skin conditions. | | | | | | | | | | |
| | | <table border="1"> <tr> <td>HEALTH</td> <td>1</td> </tr> <tr> <td>FLAMMABILITY</td> <td>0</td> </tr> <tr> <td>PHYSICAL HAZARDS</td> <td>0</td> </tr> <tr> <td>PROTECTIVE EQUIPMENT</td> <td>A</td> </tr> <tr> <td>EYES</td> <td></td> </tr> </table> | HEALTH | 1 | FLAMMABILITY | 0 | PHYSICAL HAZARDS | 0 | PROTECTIVE EQUIPMENT | A | EYES | |
| HEALTH | 1 | | | | | | | | | | | |
| FLAMMABILITY | 0 | | | | | | | | | | | |
| PHYSICAL HAZARDS | 0 | | | | | | | | | | | |
| PROTECTIVE EQUIPMENT | A | | | | | | | | | | | |
| EYES | | | | | | | | | | | | |

5. FIREFIGHTING MEASURES

| | | | |
|-----|---------------------------|--|---|
| 5.1 | Fire & Explosion Hazards: | This product is non-flammable. However, if involved in a fire, this product may ignite and decompose to carbon monoxide, carbon dioxide and smoke. |  |
| 5.2 | Extinguishing Methods: | Water Fog, Foam, Dry Chemical. | |
| 5.3 | Firefighting Procedures: | As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure demand) and full protective gear. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personnel. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous decomposition products. | |

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

SDS Revision: 2.1

SDS Revision Date: 2/8/2016

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 (PPE).</p> <p>For <u>small spills</u> (e.g., < 1 gallon (3.79 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.</p> <p>For <u>large spills</u> (e.g., ≥ 1 gallon (3.79 L)), deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.</p> |
|-----|---------|---|

7. HANDLING & STORAGE INFORMATION

| | | |
|-----|---------------------------|---|
| 7.1 | Work & Hygiene Practices: | Avoid eye contact. Do not eat, drink or smoke while handling product. |
| 7.2 | Storage & Handling: | 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). Do not store in damaged or unmarked containers or storage devices. |
| 7.3 | Special Precautions: | Spilled material may present a slipping hazard if left unattended. Clean all spills promptly. |

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

| | | | | | | | | | | | |
|-------------|--|--|-------|------|--------|---------|---------|------|----------|------|----------|
| 8.1 | Exposure Limits: ppm (mg/m ³) | | ACGIH | | NOHSC | | | OSHA | | | OTHER |
| | | CHEMICAL NAME(S) | TLV | STEL | ES-TWA | ES-STEL | ES-PEAK | PEL | STEL | IDLH | |
| | | MINERAL OIL (PARAFFINUM LIQUIDUM) | NA | NA | 5 | NF | NF | NA | NA | NA | MIST |
| | | PROPYLENE GLYCOL | NA | NA | 474 | NF | NF | NA | NA | NA | |
| | | LIMONENE | NA | NA | NF | NF | NF | NA | NA | NA | ALLERGEN |
| | | LINALOOL | NA | NA | NF | NF | NF | NA | NA | NA | ALLERGEN |
| | | BENZYL SALICYLATE | NA | NA | NF | NF | NF | NA | NA | NA | ALLERGEN |
| | | BUTYLPHENYL METHYLPROPIONAL | NA | NA | NF | NF | NF | NA | NA | NA | ALLERGEN |
| | | HEXYL CINNAMAL | NA | NA | NF | NF | NF | NA | NA | NA | ALLERGEN |
| | | CITRAL | NA | NA | NF | NF | NF | NA | NA | NA | ALLERGEN |
| CITRONELLOL | NA | NA | NF | NF | NF | NA | NA | NA | ALLERGEN | | |
| 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: | Avoid eye contact. Always use protective eyewear when cleaning spills or leaks, or when handling large quantities (e.g., ≥ 1 gallon) of this product. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants. | | | | | | | | | |
| 8.5 | Hand Protection: | None required under normal conditions of use. | | | | | | | | | |
| 8.6 | Body Protection: | No special body protection is required under typical circumstances of use and handling. | | | | | | | | | |

**9. PHYSICAL & CHEMICAL PROPERTIES**

| | | |
|------|---|--|
| 9.1 | Appearance: | Viscous creamy emulsion: Light green, light yellow, light orange or lavender color |
| 9.2 | Odor: | Citrus scent or lavender scent |
| 9.3 | Odor Threshold: | ND |
| 9.4 | pH: | 7.0-8.0 |
| 9.5 | Melting Point/Freezing Point: | NA |
| 9.6 | Initial Boiling Point/Boiling Range: | NA |
| 9.7 | Flashpoint: | NA |
| 9.8 | Upper/Lower Flammability Limits: | NA |
| 9.9 | Vapor Pressure: | NA |
| 9.10 | Vapor Density: | NA |
| 9.11 | Relative Density: | 0.98-1.0 |
| 9.12 | Solubility: | Soluble |
| 9.13 | Partition Coefficient (log P _{ow}): | NA |
| 9.14 | Autoignition Temperature: | ND |

9. PHYSICAL & CHEMICAL PROPERTIES – cont'd

| | | |
|------|----------------------------|----------------------|
| 9.15 | Decomposition Temperature: | NA |
| 9.16 | Viscosity: | 35,000 – 100,000 cPs |
| 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: | Oxides of carbon (CO, CO ₂) and sulfur (SO ₂). |
| 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: | None known. |

11. TOXICOLOGICAL INFORMATION

| | | | | |
|------|------------------------------|---|-----------------|----------------|
| 11.1 | Routes of Entry: | Inhalation: NO | Absorption: YES | Ingestion: YES |
| 11.2 | Toxicity Data: | This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product and is presented below: Mineral oil: LD ₅₀ (oral, mouse) = 22,000 mg/kg; LC ₅₀ (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 material contains Mineral oil (Paraffin oils) IARC Group 1 listed; Carcinogenic to humans (based on the background information of the NTP for Paraffin oils as a liquid or mist). | | |
| 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 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: | NA |

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): | NOT REGULATED |
| 14.2 | IATA (AIR): | NOT REGULATED |
| 14.3 | IMDG (OCN): | NOT REGULATED |
| 14.4 | TDGR (Canadian GND): | NOT REGULATED |
| 14.5 | ADR/RID (EU): | NOT REGULATED |
| 14.6 | SCT (MEXICO): | NOT REGULATED |
| 14.7 | ADGR (AUS): | NOT REGULATED |

15. REGULATORY INFORMATION

| | | | |
|------|-----------------------------------|--|---|
| 15.1 | SARA Reporting Requirements: | NA | |
| 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): | NA | |
| 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 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 D2B. |  |
| 15.7 | State Regulatory Information: | <u>Mineral oil</u> is on the following state criteria list: Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), 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). | |
| 15.8 | Other Requirements: | The primary components of this product are listed in Annex I of EU Directive 67/548/EEC: <u>Limonene</u> : Irritant (Xi). <u>Risk Phrases</u> (R):43 – May cause sensitization by skin contact. <u>Safety Phrases</u> (S): 2-25 -26 -37- Keep out of reach of children. Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves. |  |

16. OTHER INFORMATION

| | | | |
|------|----------------------|--|--|
| 16.1 | Other Information: | WARNING! CAUSES MILD SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. MAY BE FATAL IF SWALLOWED. Wash thoroughly with soap and water after handling. Wear eye protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337-P313 If eye irritation persist: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. Store in a cool place. 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) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com |  |

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 |
| C | Ceiling Limit |
| IDLH | Immediately Dangerous to Life and Health |
| OSHA | U.S. Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| TLV | Threshold Limit Value |

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:

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

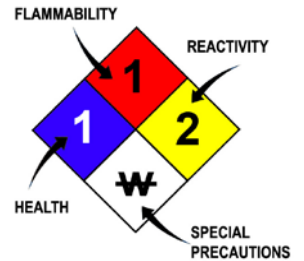
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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:

| | |
|---|---|
| LD₅₀ | Lethal Dose (solids & liquids) which kills 50% of the exposed animals |
| LC₅₀ | Lethal concentration (gases) which kills 50% of the exposed animal |
| ppm | Concentration expressed in parts of material per million parts |
| TD₁₀ | Lowest dose to cause a symptom |
| TCLo | Lowest concentration to cause a symptom |
| TD₁₀, LD₁₀, & LD₀₁ or TC, TC₀₁, LC₁₀, & LC₀₁ | 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:

| | | | | | | | | |
|-----------|-----------|----------|-------------|-----------|-------|--------------------|---------------|-------------|
| | | | | | | | | |
| Explosive | Flammable | Oxidizer | Pressurized | Corrosive | Toxic | Harmful Irritating | Health Hazard | Environment |