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

## **MATERIAL SAFETY DATA SHEET**

MSDS Revision: 2.2

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MSDS Revision Date: 10/22/2009

1. PRODUCT IDENTIFICATION 1.1 Product Name: BONDEX 1.2 Chemical Name: **ETHYL ACETATE SOLUTION** 1.3 Synonyms: NA Trade Names: 1.4 NA 1.5 Product Use: PROFESSIONAL USE ONLY 1.6 Manufacturer's Name: OPI PRODUCTS, INC. 1.7 Manufacturer's Address: 13034 SATICOY STREET, NO. HOLLYWOOD, CA 91605 USA **Emergency Phone** CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 +1 (818) 759-2400 / +1 (800)-341-9999 2. HAZARD IDENTIFICATION This product is neither classified as a HAZARDOUS SUBSTANCE nor as DANGEROUS GOODS according to the classification criteria of NOHSC: 1088(2004) and ADG Code (Australia). Flammable Liquid. Ingestion: Inhalation: Absorption: YES Effects of Exposure: INGESTION: If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression. Mildly to moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and EYES: SKIN: May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact. Vapors of this product may be slightly irritating to the nose, throat and other tissues of the respiratory system. INHALATION: Symptoms of overexposure can include coughing, wheezing, nasal congestion, and difficulty breathing. Inhalation of vapors exceeding the levels listed in Section 2 (Composition & Ingredient Information) can cause central nervous system depression (e.g., drowsiness, dizziness, headaches, nausea). Symptoms of Overexposure: EYES: Overexposure in eyes may cause redness, itching and watering. SKIN: Symptoms of skin overexposure in some sensitive individuals may include redness, itching, and irritation of affected areas. Acute Health Effects: 2.5 Mild to moderate irritation to eyes and skin near affected areas. High concentrations of vapors may cause drowsiness, dizziness, headaches and nausea. 2.6 Chronic Health Effects: None known. 2.7 Target Organs: Eyes, skin & respiratory system. NA = Not Available; ND = Not Determined; NE = Not Established; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2004 format.

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|              |  |                    |                 |                  |                                     |          |         |              |                      |            |            |          | 1413    | D3-0    | 717     |
|--------------|--|--------------------|-----------------|------------------|-------------------------------------|----------|---------|--------------|----------------------|------------|------------|----------|---------|---------|---------|
| Prep         | ared to OSHA,                          | ACC, ANSI, N       | OHSC, WHMIS     | \$ & 2001/58 EC  | C Standards                         | MSDS I   | Revisio | n: 2.2       |                      | MSD        | S Revi     | ion Do   | ite: 10 | /22/20  | 09      |
|              |  |                    |                 |                  |                                     |          |         |              |                      |            |            |          |         |         |         |
|              |  |                    |                 | B. COMPO         | & NOITIZC                           | ING      | REDIE   | NTS          |                      |            |            |          |         |         |         |
|              |  |                    |                 |                  |                                     |          |         | <b>-</b>     |                      | SURE LI    |            | AIR (r   |         |         | _       |
|              |  |                    |                 |                  |                                     | li .     |         | GIH          |                      | NOHSC      | :          |          | OSHA    |         | OTHER   |
|              |  |                    |                 |                  |                                     |          |         | om           | ES-                  | ppm<br>ES- | ES-        |          | ppm     |         | OTHER   |
|              | CHEMICAL NA                            | ME(S)              | CAS No.         | RTECS No.        | EINECS No.                          | %        | TLV     | STEL         | TWA                  | STEL       | PEAK       | PEL      | STEL    | IDLH    |         |
| ETHYL        | ACETATE                                |                    | 141-78-6        | AH5425000        | 205-500-4                           | ≤ 88.0   | 1400    | NA           | 720                  | 1440       | NF         | 1400     | NA      | NA      |         |
| HEMA MALEATE |  | 51978-15-5         | NA              | 257-569-5        | ≤ 9.0                               | NE       | NE      | NF           | NF                   | NF         | NE         | NE       | NE      |         |         |
| HEM/         | A                                      |                    | 868-77-9        | OZ4725000        | 212-782-2                           | ≤ 3.0    | 10      | NA           | NF                   | NF         | NF         | NA       | NA      | NA      |         |
|              |  |                    |                 |                  |                                     |          | 1       |              | 4;                   |            |            |          | 11      |         | -       |
|              |  |                    |                 | 4. FII           | RST AID M                           | EASU     | RES     |              |                      |            |            |          |         |         |         |
| 4.1          | First Ald:                             | If the second seal |                 |                  |                                     |          |         | ا مائاما     |                      |            |            |          | 4445DI  | LATELY  | If AL a |
|              | INGESTION:                             |                    |                 |                  | product has b<br>ater or milk. N    |          |         |              |                      |            |            |          |         |         |         |
|              |  |                    |                 |                  | emergency nu                        |          |         |              |                      |            |            |          |         |         |         |
|              |  | ingested an        | id the amount   | of the substar   | nce that was sv                     | vallowe  | d.      |              |                      |            |            |          |         |         |         |
|              | EYES:                                  |                    |                 |                  | copious amou<br>IF problem pe       |          |         |              |                      |            |            |          | s. Ope  | en and  | close   |
|              | SKIN:                                  |                    |                 |                  | ir problem per<br>kin, rinse thor   |          |         |              |                      |            |            |          | oroua   | h wasi  | nina of |
|              |  | the affected       | d area with pl  | enty of soap     | and water. Do                       | not we   | ar cor  | ntamin       | ated c               | lothing    |            |          |         |         |         |
|              |  |                    |                 |                  | g persists, cons                    | -        | -       |              |                      | -          |            |          |         |         |         |
|              | INHALATION:                            | attention.         | tim to tresh a  | ir at once. It i | breathing stop                      | s, репо  | rm anı  | riciai r     | espirai              | ion at     | once.      | seek II  | nmea    | late m  | eaicai  |
| 4.2          | Medical Condition                      |                    |                 |                  |                                     |          | _       |              | HEA                  | LTH        |            |          |         |         | 1       |
|              | Pre-existing d<br>skin, respirato      |                    | ier skin condit | ions, and also   | rders of the fa                     | rget org | gans (e | yes,         | FΙΔ                  | MMA        | RILI       | ΓY       | TSU(    | TO LONG | 3       |
|              | oran, roop nare                        | ., .,,.            |                 |                  |                                     |          |         | ı            |                      | CTIV       | 0.00       |          | 10      |         | 1       |
|              |  |                    |                 |                  |                                     |          |         | }            |                      |            |            | 2 3211   |         |         |         |
|              |  |                    |                 |                  |                                     |          |         | ļ            | PROTECTIVE EQUIPMENT |            |            | :NT      | В       |         |         |
|              |  |                    |                 |                  |                                     |          |         |              | EYES                 | i :        | SKIN       |          |         |         |         |
|              |  |                    |                 |                  |                                     |          |         |              |                      |            |            |          |         |         |         |
|              | •                                      |                    |                 | 5. FIRE          | <u>FIGHTING</u>                     | MEA      | SURE    | S            |                      |            |            |          |         |         |         |
| 5.1          | Flashpoint & Metho<br>-3 °C (26 °F), T | CC                 |                 |                  |                                     |          |         |              |                      |            |            |          |         |         |         |
| 5.2          | Autolgnition Temp                      | erature:           |                 | <i>1</i> 0       |                                     |          |         |              |                      |            |            |          |         |         |         |
| 5.3          | Flammability Limits                    |                    |                 | Lower Explo      | sive Limit (LEL)                    | )  <br>  | 2.2%    | <u> </u>     | Uppe                 | r Explo    | sive Lir   | nit (UEL | 10      | 1       | 1.4%    |
| 5.4          | Fire & Explosion Ho                    |                    |                 | 14 19 -1         |                                     |          | 41      | 1/           |                      |            | -1         | .        |         |         |         |
|              | WARNING: Fla<br>when not in u          |                    |                 |                  |                                     |          |         |              |                      |            |            |          |         |         |         |
|              | can burn or ex                         |                    |                 |                  |                                     |          |         |              |                      |            | · iii · di | <u>'</u> |         |         |         |
| 5.5          | Extinguishing Meth                     |                    |                 |                  |                                     |          |         |              |                      |            |            |          | A       | 3       |         |
|              | CO <sub>2</sub> , Dry Cher             | mical or Foar      | n , as authoriz | ed.              |                                     |          |         |              |                      |            |            | _ 4      | 41      | -       | 1)      |
| 5.6          | Firefighting Proced                    |                    |                 |                  |                                     |          |         |              |                      |            |            |          | 4       | /       | /       |
|              | When involve                           |                    | •               | •                | •                                   | •        |         |              |                      |            |            |          | 1       | \/      |         |
|              | First responde                         |                    |                 |                  | tural firefighte:<br>direct vapors. |          |         |              |                      |            |            |          |         | V       |         |
|              | extinguishing                          |                    |                 |                  |                                     |          | , 11    | J. <b>20</b> | 2                    |            |            | <b>'</b> |         |         |         |
|              | HAZCHEM CO                             | DE: 3YE            |                 |                  |                                     |          |         |              |                      |            |            |          |         |         |         |
|              |  |                    |                 |                  |                                     |          |         |              |                      |            |            |          |         |         |         |

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#### 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 (3.785 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 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 & Hyglene Practices:

Avoid prolonged contact with this material. Avoid breathing the vapors generated by this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). Wash exposed skin thoroughly with plenty of soap & water after using this product. If necessary, use a moisturizer after washing. 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 away from incompatible materials listed in Section 10. Do not store in damaged or unmarked containers or storage devices. Keep containers securely closed when not in use. Open slowly on a level, stable surface. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care. As a precaution against exposure to the eyes, nose, throat and face, this product should not be stored higher than walst level. Keep away from children at all times!

7.3 Special Precautions:

NA

#### 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. In instances where vapors or sprays 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:

Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this product. Always use protective eyewear when cleaning spills or leaks.

8.4 Hand Protection:

None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals.

When handling large quantities (e.g.,  $\geq 1$  gallon), wear rubber or impervious plastic gloves.

8.5 Body Protection:

No apron required when handling small quantities.

When handling large quantities (e.g.,  $\geq$  1 gallon), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.

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|---------------------------------|--|--|------------|--|--|--|
|                                 |  | 9. PHYSICAL & CHEMICAL PROPERTIES  |            |  |  |  |
| .1                              | Density:   | 0.902  |            |  |  |  |
| .2                              | Bolling Point:   | 77.7 °C (172 °F)   |            |  |  |  |
| .3                              | Melting Point:   | 77.7 C (172 F)   |            |  |  |  |
| .4                              | Evaporation Rate:  | NA NA  |            |  |  |  |
| .5                              | Vapor Pressure:  | NA NA  |            |  |  |  |
| .6                              | Molecular Weight:  | NA NA  |            |  |  |  |
| .7                              |  |  |            |  |  |  |
| -                               | Appearance & Color:  | Clear liquid with fragrant fruity odor.  |            |  |  |  |
| .8                              | Odor Threshold:  | NA   |            |  |  |  |
| .9                              | Solubility:  | Slightly miscible with water.  |            |  |  |  |
| 2.10                            | рН   | NA NA  |            |  |  |  |
| 2.11                            | Viscosity:   | Non-viscous.   |            |  |  |  |
| .12                             | Other Information:   | NA NA  |            |  |  |  |
| _                               |  | 10 CTABLITY & BEACTIVITY   |            |  |  |  |
|                                 | La   | 10. STABILITY & REACTIVITY   |            |  |  |  |
| 0.1                             | Stable under ambient cor   | aditions when stared properly (see Section 7. Storage and Handling)  |            |  |  |  |
| 0.2                             | Hazardous Decomposition Produc   | nditions when stored properly (see Section 7, Storage and Handling).   | _          |  |  |  |
| 0,2                             | If exposed to extremely t  | nigh temperatures, the products of thermal decomposition may include irritating vapors and co  | arbon oxi  |  |  |  |
| 0.3                             | gases (e.g., CO, CO <sub>2</sub> ).  Hazardous Polymerization:   |  |            |  |  |  |
| 0.3                             | '  | extremely high temperatures.   |            |  |  |  |
| 0.4                             | Conditions to Avoid:   | ixilientery high temperatores.   |            |  |  |  |
| 0.4                             | None reported.   |  |            |  |  |  |
| 0.5                             | Incompatible Substances;   |  |            |  |  |  |
|                                 | Strong oxidizers, (e.g., p<br>potassium hydroxide).  | peroxides, superoxides), strong acids (e.g., hydrochloric or muriatic acids), or strong bases  | e.g., ly   |  |  |  |
|                                 |  |  |            |  |  |  |
|                                 |  | 11 TOXICOLOGICAL INFORMATION   |            |  |  |  |
| 1.1                             | Tayloity Data:   | 11. TOXICOLOGICAL INFORMATION  |            |  |  |  |
| 1.1                             |  | 11. TOXICOLOGICAL INFORMATION  In tested on animals to obtain toxicological data. There are toxicology data for the comport in the scientific literature. These data have not been presented in this document.   | nents of t |  |  |  |
|                                 | This product has not bee   | en tested on animals to obtain toxicological data. There are toxicology data for the compor  | nents of t |  |  |  |
| 1.2                             | This product has not bee product, which are found  Acute Toxicity:   | en tested on animals to obtain toxicological data. There are toxicology data for the compor  | nents of t |  |  |  |
| 1.2                             | This product has not bee product, which are found  Acute Toxicity: See Section 2.5  Chronic Toxicity:  | en tested on animals to obtain toxicological data. There are toxicology data for the compor  | nents of t |  |  |  |
| 1.2<br>1.3                      | This product has not bee product, which are found  Acute Toxicity: See Section 2.5 Chronic Toxicity: See Section 2.6 Suspected Carcinogen:   | en tested on animals to obtain toxicological data. There are toxicology data for the compor  | nents of t |  |  |  |
| 1.2<br>1.3                      | This product has not bee product, which are found Acute ToxIcity: See Section 2.5 Chronic ToxIcity: See Section 2.6 Suspected CarcInogen: No   | en tested on animals to obtain toxicological data. There are toxicology data for the compor<br>in the scientific literature. These data have not been presented in this document.  | nents of t |  |  |  |
| 1.2<br>1.3                      | This product has not bee product, which are found Acute Toxlcity: See Section 2.5 Chronic Toxlcity: See Section 2.6 Suspected Carcinogen: No Reproductive Toxlcity:  | en tested on animals to obtain toxicological data. There are toxicology data for the compor in the scientific literature. These data have not been presented in this document.  This product is not reported to cause reproductive toxicity in humans.                                 | nents of t |  |  |  |
| 1.2<br>1.3                      | This product has not bee product, which are found  Acute Toxicity: See Section 2.5 Chronic Toxicity: See Section 2.6 Suspected Carcinogen: No Reproductive Toxicity: Mutagenicity:   | This product is not reported to cause reproductive toxicity in humans.  This product is not reported to produce mutagenic effects in humans.  This product is not reported to produce embryotoxic effects in humans.   | nents of t |  |  |  |
| 1.2<br>1.3                      | This product has not bee product, which are found  Acute Toxicity: See Section 2.5 Chronic Toxicity: See Section 2.6 Suspected Carcinogen: No Reproductive Toxicity: Mutagenicity: Embryotoxicity:   | This product is not reported to produce mutagenic effects in humans.  This product is not reported to cause removed to effects in humans.  This product is not reported to produce embryotoxic effects in humans.  This product is not reported to cause removed to effects in humans. | nents of t |  |  |  |
| 1.2<br>1.3<br>1.4               | This product has not bee product, which are found  Acute Toxicity: See Section 2.5 Chronic Toxicity: See Section 2.6 Suspected Carcinogen: No Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity:  | This product is not reported to cause reproductive toxicity in humans.  This product is not reported to produce mutagenic effects in humans.  This product is not reported to produce embryotoxic effects in humans.   | nents of t |  |  |  |
| 1.2<br>1.3<br>1.4               | This product has not bee product, which are found  Acute Toxicity: See Section 2.5 Chronic Toxicity: See Section 2.6 Suspected Carcinogen: No Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity:   | This product is not reported to produce mutagenic effects in humans.  This product is not reported to cause removed to effects in humans.  This product is not reported to produce embryotoxic effects in humans.  This product is not reported to cause removed to effects in humans. | nents of t |  |  |  |
| 1.2<br>1.3<br>1.4<br>1.5        | This product has not bee product, which are found  Acute Toxicity: See Section 2.5 Chronic Toxicity: See Section 2.6 Suspected Carcinogen: No Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product:  | This product is not reported to produce mutagenic effects in humans.  This product is not reported to cause removed to effects in humans.  This product is not reported to produce embryotoxic effects in humans.  This product is not reported to cause removed to effects in humans. | nents of t |  |  |  |
| 1.1<br>1.2<br>1.3<br>1.4<br>1.5 | This product has not bee product, which are found  Acute Toxicity: See Section 2.5 Chronic Toxicity: See Section 2.6 Suspected Carcinogen: No Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: See section 2.3                              | This product is not reported to produce mutagenic effects in humans.  This product is not reported to cause removed to effects in humans.  This product is not reported to produce embryotoxic effects in humans.  This product is not reported to cause removed to effects in humans. | nents of t |  |  |  |
| 1.2<br>1.3<br>1.4<br>1.5        | This product has not bee product, which are found  Acute Toxicity: See Section 2.5 Chronic Toxicity: See Section 2.6 Suspected Carcinogen: No Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: See section 2.3 Biological Exposure Indices: | This product is not reported to produce mutagenic effects in humans.  This product is not reported to cause removed to effects in humans.  This product is not reported to produce embryotoxic effects in humans.  This product is not reported to cause removed to effects in humans. | nents of t |  |  |  |

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.2 MSDS Revision Date: 10/22/2009 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. Effects on Plants & Animals: 12.2 There is no specific data available for this product. 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. Aguatic 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 all Federal, state, and local regulations. Special Considerations: 13.2 U.S. EPA Characteristic Waste: D001 (Flammable) 14. TRANSPORTATION INFORMATION The basic description (proper shipping name, hazard class & division, ID Number, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. 49 CFR (GND): CONSUMER COMMODITY, ORM-D ( $x \le 1.0 L$ ) UN1993, FLAMMABLE LIQUID N.O.S. (ETHYL ACETATE, METHACRYOYLOXYETHYL MALEATE), 3, II (x>1.0 L) 14.2 ID8000, CONSUMER COMMODITY, 9 UN1993, FLAMMABLE LIQUID N.O.S. (ETHYL ACETATE, METHACRYOYLOXYETHYL MALEATE), 3, II (x >0.5 L) 14.3 UN1993, FLAMMABLE LIQUID N.O.S. (ETHYL ACETATE, METHACRYOYLOXYETHYL MALEATE), 3, II, LTD QTY UN1993, FLAMMABLE LIQUID N.O.S. (ETHYL ACETATE, METHACRYOYLOXYETHYL MALEATE), 3, II (x >1.0 L) CONSUMER COMMODITY 14.4 TDGR (Canadian GND): MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" ORM-D UN1993, FLAMMABLE LIQUID N.O.S. (ETHYL ACETATE, METHACRYOYLOXYETHYL MALEATE), 3, II (x > 1.0 L) 14.5 UN1993, FLAMMABLE LIQUID N.O.S. (ETHYL ACETATE, METHACRYOYLOXYETHYL MALEATE), 3, II, LTD QTY UN1993, FLAMMABLE LIQUID N.O.S. (ETHYL ACETATE, METHACRYOYLOXYETHYL MALEATE), 3, II (x >1.0 L) 14.6 MEXICO (SCT): UN1993, LIQUIDOS INFLAMABLES, N.E.P. (ETIL ACETATO, METACRIOLOXYETIL MALEATO), 3, II, CANTIDAD LIMITADA UN1993, LIQUIDOS INFLAMABLES, N.E.P. (ETIL ACETATO, METACRIOLOXYETIL MALEATO), 3, II (x>1.0 L) 14.7 ADGR (AUS): UN1993, FLAMMABLE LIQUID N.O.S. (ETHYL ACETATE, METHACRYOYLOXYETHYL MALEATE), 3, II, LTD QTY UN1993, FLAMMABLE LIQUID N.O.S. (ETHYL ACETATE, METHACRYOYLOXYETHYL MALEATE), 3, II (x > 1.0 L)

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards | MSDS Revision; 2.2 MSDS Revision Date: 10/22/2009 15. REGULATORY INFORMATION 15.1 SARA Reporting Requirements: NA 15.2 SARA Threshold Planning Quantity: NA 15.3 TSCA Inventory Status: All components of this product are listed in the TSCA Inventory or are exempt. 15.4 CERCLA Reportable Quantity (RQ): Ethyl Acetate: 2268 kg; 5000 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 MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. Class B2 Flammable Liquid. 15.7 State Regulatory Information: Ingredients in this mixture on found on the following state criteria lists: California OSHA Hazardous Substances List **Ethyl Acetate** Massachusetts Hazardous Substances List Ethyl Acetate Minnesota hazardous Substances List Ethyl Acetate Ethyl Acetate New Jersey Right to Know List Pennsylvania Hazardous Substances List **Ethyl Acetate** California Prop 65: No significant risk level. None of the chemicals in this product are listed. 67/548/EEC (European Union) Requirements: The primary component of this product is listed in Annex I of EU Directive 67/548/EEC: Ethyl Acetate: Highly Flammable (F+), Irritant (Xi). R: 11-36-66-67 – Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness. S: 2-16-24/25/26-33 – 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. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. **HAZCHEM CODE: 3YE** 16. OTHER INFORMATION 16.1 Other Information: Precisely follow directions and MSDS (available through your supplier) for use. Avoid all skin contact. If redness or other signs of adverse reaction occur, discontinue use immediately. Use only in a well ventilated area, A ventilation system that expels vapors to the outdoors is recommended. Poisonous if swallowed! Keep out of reach of children. FLAMMABLE! Keep away from heat or flame. In case of emergency, contact your physician or local Poison Control Center immediately. FOR PROFESSIONAL USE ONLY. Terms & Definitions: 16.2 See last page of this MSDS. 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 & OPI Products' 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. Prepared for: OPI Products, Inc. 13034 Saticoy Street  $()\cdot P\cdot I$ No. Hollywood, CA 91605 USA +1 (818) 759-2400 phone +1 (818) 759-5770 fax http://www.opi.com/ 16.5 Prepared by: ShipMate, Inc. P.O. Box 787 Sisters, OR. 97759-0787 +1 (310) 370-3600 phone +1 (310) 370-5700 fax

# **MATERIAL SAFETY DATA SHEET**

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.2

MSDS Revision Date: 10/22/2009

#### **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 |
|-------------------------------------|
|-------------------------------------|

#### **EXPOSURE LIMITS IN AIR:**

| ACGIH American Conference on Governmental Industrial Hygien |  |  |  |  |
|---|--|--|--|--|
| 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  |  |  |  |  |  |  |  |  |
|     | whose heart has stopped receives manual chest<br>compressions and breathing to circulate blood and provide |  |  |  |  |  |  |  |  |
|     | oxygen to the body.  |  |  |  |  |  |  |  |  |

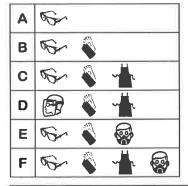
#### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

#### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

| 0 | Minimal Hazard  |
|---|-----------------|
| 1 | Slight Hazard   |
| 2 | Moderate Hazard |
| 3 | Severe Hazard   |
| 4 | Extreme Hazard  |



#### PERSONAL PROTECTION RATINGS:







Safety Glasses



Synthetic Apron Dust & Vapor Respirator

Splash Goggles





Face Shleld &

**Eve Protection** 



Gloves

Full Face Respirator

Alrline Hood/Mask

Note: the dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.

#### OTHER STANDARD ABBREVIATIONS:

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

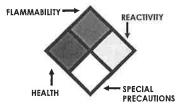
#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

#### FLAMMABILITY LIMITS IN AIR:

| Autolgnition | Minimum temperature required to initiate combustion  |
|--------------|--|
| Temperature  | 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,   |
|              | 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:

|     | 4.45 1 1111     |
|-----|-----------------|
| 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    |
| ОХ  | Oxidizer        |



#### TOXICOLOGICAL INFORMATION:

| LD <sub>50</sub>   | Lethal Dose (solids & liquids) which kills 50% of the exposed animals s |  |  |  |
|--|---|--|--|--|
| LC <sub>50</sub>   | Lethal concentration (gases) which kills 50% of the exposed animal      |  |  |  |
| ppm  | Concentration expressed in parts of material per million parts          |  |  |  |
| TDIo   | Lowest dose to cause a symptom  |  |  |  |
| TCLo   | Lowest concentration to cause a symptom                                 |  |  |  |
| TD <sub>Io</sub> , LD <sub>Io</sub> , & LD <sub>o</sub> or<br>TC, TC <sub>o</sub> , LC <sub>Io</sub> , & LC <sub>o</sub> | Lowest dose (or concentration) to cause lethal or toxic effects         |  |  |  |
| IARC   | International Agency for Research on Cancer                             |  |  |  |
| NTP  | National Toxicology Program   |  |  |  |
| RTECS  | Registry of Toxic Effects of Chemical Substances                        |  |  |  |
| BCF  | Bioconcentration Factor   |  |  |  |
| TLm  | Median threshold limit  |  |  |  |
| log Kow or log Koc   | 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                         |
| FU    | European Union (European Union Directive 67/548/EEC)     |

#### **EC INFORMATION:**

|           | North     | St.       |         |           | •     |        | ×       |
|-----------|-----------|-----------|---------|-----------|-------|--------|---------|
| С         | Е         | F         | N       | 0         | T+    | Xi     | Xn      |
| Corrosive | Explosive | Flammable | Harmful | Oxldizing | Toxic | Intant | Harmful |