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# SAFETY DATA SHEET

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

SDS Revision: 3.1

SDS Revision Date: 2/8/2016

1. PRODUCT & COMPANY IDENTIFICATION				
1.1	Product Name:	OPI L-2000 TRADITIONAL LIQUID/MONOMER		
1.2	Chemical Name:	Methacrylate Solution		
1.3	Synonyms:	NA NA		
1.4	Trade Names:	LP xxx		
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: This product is classified as a hazardous substance and as dangerous goods according to the classification criteria of NOHSC: 1008 (2004) and ADG Code (Australia).

DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. MAY BE HARMFUL IN CONTACT WITH SKIN. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE RESPIRATORY IRRITATION.

Classification: Flam. Liq. 2; Acute Tox. 5; Skin Sens. 1A; Eye Irrit. 2A; STOT SE 3

Hazard Statements (H): H225 – Highly flammable liquid and vapor. H313 – May be harmful in contact with skin. H319 – Causes serious eye irritation. H335 – May cause respiratory irritation.

Precautionary Statements (P): 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 fume/mist/vapors/spray. P264 – Wash exposed skin areas thoroughly with soap and water after handling. P272 – Contaminated work clothing should not be allowed out of the workplace. P280 – Wear protective gloves/eye protection/face protection. P302+P352 – IF ON SKIN: Wash with soap and water. P305+P351+P338 – IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P333+P313 – If skin irritation or a rash occurs – Get medical advice/attention. P321 – For specific first aid treatment (See Section 4 of this Safety Data Sheet). P363 – Wash contaminated clothing before reuse. P370+P378 – In case of fire, CO<sub>2</sub>, Halon (if permitted), dry chemical, or foam for extinction. P403+P235 – Store in a well-ventilated place. Keep cool. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).



### 3. COMPOSITION & INGREDIENT INFORMATION

								EXPO	SURE LI	MITS IN	AIR (mg	g/m³)	
					AC	GIH		NOHSC			OSHA		
					pp	m		ppm			ppm		
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
ETHYL METHACRYLATE	97-63-2	OZ4550000	202-597-5	60-100	(15)	NA	NF	NF	NF	(10)	NA	NA	
ETHYL METHACKYLATE	Flam. Liq. 2, SI	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, Eye Irrit. 2, STOT SE 3; H225, H315, H317, H319, H335											
GLYCOL HEMA-METHACRYLATE	97-90-5	OZ4400000	202-617-2	15-40	NA	NA	NF	NF	NF	NA	NA	NA	
GLYCOL HEIVIA-IVIETHACKYLATE	Skin Sens.1; STOT SE 3, H317, H335												
DIMETHYLTOLYLAMINE	99-97-8	XU5803000	202-805-4	10-30	NA	NA	NF	NF	NF	NA	NA	NA	
DIMETHICIOLILAMINE													
DROMETRIAZOLE	2440-22-4	GO6860000	219-470-5	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
DROIVIE I RIAZOLE													

### 4. FIRST AID MEASURES

4.1	First Aid:	Ingestion:  Eyes: Skin: Inhalation:	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 Rocky Mountain Poison Control Center at 1-303-623-5716 or 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 product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. Open and close eyelid(s) to ensure thorough irrigation. IF problem persists, seek immediate medical attention. If irritation occurs & product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with plenty of soap and water. Do not wear contaminated clothing until after it has been properly cleaned. If irritation, redness or swelling persists, consult a physician immediately. Remove victim to fresh air at once. If breathing stops, perform artificial respiration at once. Seek immediate medical attention.
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 3.1 SDS Revision Date: 2/8/2016 4. FIRST AID MEASURES - cont'd Effects of Exposure: If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system Ingestion: depression. Irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering. Eyes: May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact. Skin: Vapors of this product may be slightly irritating to the nose, throat and other tissues of the respiratory Inhalation: 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, 4.3 Symptoms of Overexposure: Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. Overexposure in eyes may cause redness, itching and watering. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 4.4 Acute Health Effects: Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea Chronic Health Effects: 4.5 None known 46 Target Organs: Eyes, Skin, Respiratory System. 47 Medical Conditions Pre-existing dermatitis, other skin conditions, and disorders of the HEALTH 2 Aggravated by Exposure: target organs (eyes, skin, and respiratory system). **FLAMMABILITY** 3 PHYSICAL HAZARDS 2 PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES Fire & Explosion Hazards: DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. Keep away from heat, lit cigarettes, sparks & open flame. Keep container closed. 52 Extinguishing Methods: CO<sub>2</sub>, Halon (if permitted), Dry Chemical or Foam. 5.3 Firefighting Procedures: This product is a Class IB flammable liquid. When involved in a fire, this product will ignite readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. First responders should wear eye protection. Structural firefighters must wear SCBAs and full protective equipment. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product. HazChem Code: 3WE Hazard Identification Number: 33 6. ACCIDENTAL RELEASE MEASURES 6.1 Spills: Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows. 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 <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). 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. 7. HANDLING & STORAGE INFORMATION 7.1 Work & Hygiene Practices: Avoid prolonged contact with this material. Avoid breathing the vapors generated by this product. Use in a wellventilated 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 Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Keep away from excessive 7.2 Storage & Handling: 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 waist level. Keep away from children at all times! 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.

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11.3

11.4

11.5

Acute Toxicity:

Chronic Toxicity:

Suspected Carcinogen:

See Section 4.4

See Section 4.5

No

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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 11.6 Reproductive Toxicity: This product is not reported to produce reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. However, animal mutation data are available for Mutagenicity: the components of this product. This product is not reported to produce embryotoxic effects in humans. Embryotoxicity: This product is not reported to produce teratogenic effects in humans. Teratogenicity: This product is not reported to produce reproductive effects in humans. Reproductive Toxicity: 11.7 Irritancy of Product See Section 4.3 Biological Exposure Indices: 11.8 NF Physician Recommendations: Treat symptomatically. 11.9 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: This product will slowly volatile from soil. Components of this product will slowly decompose into organic compounds. 12.2 Effects on Plants & Animals There are no specific data available for this product. 12.3 Effects on Aquatic Life: There are no specific data available for this product. However, releases of large volumes may be harmful or fatal to overexposed aquatic life. Aquatic toxicity data for components of this product are available, but are not presented in this SDS. 13. DISPOSAL CONSIDERATIONS Waste Disposal: Waste disposal must be in accordance with appropriate Federal, state, and local regulations. 13.1 13.2 Special Considerations: U.S. EPA Characteristic Waste: 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. 49 CFR (GND): UN1993, FLAMMABLE LIQUIDS, N.O.S. (ethyl methacrylate), 3, III, LTD QTY (IP VOL ≤ 5.0 L) or CONSUMER COMMODITY, ORM-D - until 01/01/2021 UN1993, FLAMMABLE LIQUIDS, N.O.S. (ethyl methacrylate), 3, III 14.2 IATA (AIR): ID8000, CONSUMER COMMODITY, 9 (IP VOL ≤ 0.5 L) IMDG (OCN): 14.3 UN1993, FLAMMABLE LIQUIDS, N.O.S. (ethyl methacrylate), 3, III, LTD QTY (IP VOL ≤ 5.0 L) 14.4 TDGR (Canadian GND): UN1993, FLAMMABLE LIQUIDS, N.O.S. (ethyl methacrylate), 3, III, LTD QTY (IP VOL ≤ 5.0 L); or "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (IP VOL ≤ 5.0 L) ADR/RID (EU): 14.5 UN1993, FLAMMABLE LIQUIDS, N.O.S. (ethyl methacrylate), 3, III, LTD QTY (IP VOL ≤ 5.0 L) 14.6 SCT (MEXICO): UN1993, LIQUIDOS INFLAMMABLES, N.E.P. (etil metacrilato), 3, III, CANT LTDA (IP VOL ≤ 5.0 ADGR (AUS): UN1993, FLAMMABLE LIQUIDS, N.O.S. (ethyl methacrylate), 3, III, LTD QTY (IP VOL ≤ 5.0 L) 15. REGULATORY INFORMATION SARA Reporting This product does not contain any substances subject to SARA Title III, Section 313 reporting requirements. 15.1 Requirements 15.2 SARA Threshold Planning There are no specific Threshold Planning Quantities for the components of this product. Quantity: TSCA Inventory Status: 15.3 The components of this product are listed on the TSCA Inventory or are otherwise exempt. **CERCLA Reportable Quantity** 15.4 Ethyl Methacrylate: 454 kg (1,000 lbs) (RQ): 15.5 Other Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics) Other Canadian Regulations: 15.6 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: Ethyl Methacrylate is found on the following state criteria lists: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Pennsylvania Right-to-Know List (PA), and Wisconsin Hazardous Substances List <u>Dimethyltolyamine</u> is listed on the following state criteria list: NJ, PA. Glycol Hema-Methacrylate is listed on the following state criteria list: NJ, PA. No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances

List (WI).

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		15. REGULATORY INFORMATION – cont'd
15.8	Other Requirements:	The primary components of this product are listed in Annex I of EU Directive 67/548/EEC: <u>Ethyl Methacrylate</u> : Flammable, Irritant (F, Xi). <u>Risk Phrases</u> (R): 11-36/37/38 — Highly flammable. Irritating to eyes, respiratory system and skin. <u>Safety Phrases</u> (S): 2-16-23-29-33 — Keep out of the reach of children. Keep away from sources of ignition - No smoking. Do not breathe gas, fumes, vapor or spray. Do not empty into drains. Take precautionary measures against static discharges. <u>Glycol Hema-Methacrylate</u> : Irritant (Xi). <u>Risk Phrases</u> (R) 37-43 — Wear suitable gloves. In case of fire use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product. <u>Safety Phrases</u> (S) 2-24-37 — Keep out of reach of children. Avoid contact with eyes. Wear suitable gloves.
		16. OTHER INFORMATION
16.1	Other Information:	DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. MAY BE HARMFUL IN CONTACT WITH SKIN. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE RESPIRATORY IRRITATION. Keep away from heat/sparks/open flame/hot surfaces — No Smoking. Keep container tightly closed. Take precautionary measures against static discharge. Avoid breathing fume/mist/vapors/spray. Wash exposed skin areas thoroughly with soap and water after handling. Wear protective gloves/eye protection/face protection. IF ON SKIN: Wash with soap and water. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do — continue rinsing. P333+P313 — If skin irritation or a rash occurs — Get medical advice/attention. Store in a well-ventilated place. Keep cool. Precisely follow directions and Safety Data Sheet (available through your supplier) for use. Avoid 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. KEEP OUT OF REACH OF CHILDREN. FOR PROFESSIONAL USE ONLY!
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

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

SDS Revision Date: 2/8/2016

## **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	ACGIH American Conference on Governmental Industrial Hygienists			
TLV	TLV Threshold Limit Value			
OSHA	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

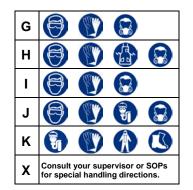
#### HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



### PERSONAL PROTECTION RATINGS:

Α			
В			
С		The state of the s	
D			
Е			
F			







Splash Goggles



Cy Face Shield &



Synthetic Apron



**Dust Respirator** 

**Full Face Respirator** 



**Full Face** Respirator



## OTHER STANDARD ABBREVIATIONS:

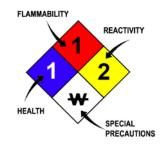
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILI	FLAMMABILITY LIMITS IN AIR:						
Autoignition Minimum temperature required to initiate combustion in air with 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
ох	Oxidizer
TREFOIL	Radioactive



#### 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
TD <sub>Io</sub>	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	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC <sub>o</sub> , LC <sub>io</sub> , & LC <sub>o</sub>	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL <sub>m</sub>	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	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	WGK Wassergefährdungsklassen (German Water Hazard Class)					

#### WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	<b>(*)</b>	<b>(4)</b>		$\odot$	(1)		
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compresse d	Flammabl e	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

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

		M	*		<b>*</b>	×	×
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammabl e	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

			$\Diamond$	A STATE OF THE STA		<b>\</b>		<b>(1)</b>
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment