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

SDS Revision: 4.1

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		1.	PRODUC	F & COMI	PANY	IDE	NTIF	ICA	TIO	N				
1.1	Product Name:	ABSOLU	TE LIQUI	D MONOI	MER									
1.2	Chemical Name:	Methacrylate	Solution											
1.3		NA												
1.4		NA												
1.5	Product Use:	Professional L												
1.6	Distributor's Name:	OPI Products,												
1.7	Distributor's Address:	1	/ Street, No. Ho	1 1										
1.8			C: +1 (703)		+1 (800) 424	-930) (CC	N 16	377)				
1.9	Business Phone / Fax:	+1 (818) 759-	2400 / +1 (818)	759-5776										
			2. HA	ZARDSI	DENT	FIC)N						
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 CAUSE AN ALLERGIC SKIN REACTION. CAUSES EYE IRRITATION. Classification: Flam. Liq. 2; Skin Sens. 1A; Eye Irrit. 2B Hazard Statements (H): H225 – Highly flammable liquid and vapor. H317 – May cause an allergic skin reaction. H320 – Causes eye 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/vapours/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/flow protection/flow protection/flow protection/flow protection/flow protection/flow pa32 + 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 ₂ , 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. CC	MPOSITI	ON & ING	REDI	ENT	INF	ORN	IAT	ON				
								1			IMITS IN	I AIR (m	ıg/m³)	
							GIH		NOHSC			OSHA		
						pł	om	ES-	ppm ES-	ES-		ppm		
CHEMI	CAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	PEL	STEL		OTHER
ETHYI	_ METHACRYLATE	97-63-2	OZ4550000 Skin Irrit. 2; Skin S	202-597-5	60-100	(15)	NA	NF	NF	NF	(10)	NA	NA	
	OXYPROPYL	27813-02-1	,	248-666-3	7-13	NA	25, H3 NA	NF	7, H31 NF	9, H335 NF	NA	NA	NA	
	ACRYLATE		Eye Irrit. 2; H317,		1 10	11/1	11/1	1.11		1.11	11/1	11/1	11/1	
		97-90-5	OZ4400000	202-617-2	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
	OL HEMA-METHACRYLATE		kin Sens. 1; H335								1		1	
CI 607	25 (VIOLET 2)	81-48-1	CB7700000	201-353-5	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
BUTY	ATED HYDROXYTOLUENE	128-37-0	GO7875000	204-881-4	0.1-1	NA	NA	NF	10	NF	NA	NA	NA	
(BHT)			1; Aquatic Chroni						10					
	THYLTOLYLAMINE	99-97-8	XU5803000	202-805-4	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
		Acute Tox. 3;	STOT-SE 2; Aqua	atic Chronic 3; H	301, H31 <mark>1</mark> ,	H331,	H373, H	412						
						0								
				FIRST AII										
4.1	¹ First Aid: Ingestion: If ingested, do not induce vomiting! If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed.						iter or milk to an iber. Provide an							
			and close eyeli	d(s) to ensure	thorough	irrigati	on. IF	proble	m per	sists, s	seek in	nmedi	ate me	
				affected area	with plent	ty of so	oap an	d wate	r. Do	not we	ear co	ntamir	nated c	ed by a thorough lothing until after immediately.
			Remove victim immediate med	to fresh air at					• •					•



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			4. FIRST AID MEASURES							
4.2	Effects of Exposure:	Ingestion:		iting and/or diarrhea and central network	is system					
		depression.								
		<u>Eyes</u> : <u>Skin</u> :	May be irritating to skin in some sensitive individ		-					
		Inhalation:	contact. Vapors of this product may be slightly irritating to the	ne nose, throat and other tissues of the re	espirator					
			system. Symptoms of overexposure can include constraints. Inhalation of vapors exceeding the level Information) can cause central nervous system de	els listed in Section 3 (Composition and I	Ingredier					
			nausea).		cadacitoe					
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:		ation to eyes and skin near affected areas. Addit zziness, headaches and nausea.	ionally, high concentrations of vapors c	an caus					
4.5	Chronic Health Effects:	None known								
4.6	Target Organs:		spiratory System.							
4.7	Medical Conditions Aggravated by Exposure:		ermatitis, other skin conditions, and disorders of the eyes, skin, and respiratory system).	HEALTH	2					
		target organs (eyes, skin, and respiratory system).	FLAMMABILITY	3					
				PHYSICAL HAZARDS	2					
				PROTECTIVE EQUIPMENT	В					
				EYES SKIN						
			5. FIREFIGHTING MEASURES							
5.1	Fire & Explosion Hazards:		GHLY FLAMMABLE LIQUID AND VAPOR! Keep a							
5.2	Extinguishing Methods:		flame. Keep container closed. permitted), Dry Chemical, Foam, as authorized.							
5.3	Firefighting Procedures:	This product is a Class IB flammable liquid. When involved in a fire, this product will ignite readily								
		and decompose to produce carbon oxides. Vapors of this product are heavier than air and may								
		travel to a source of ignition and flash back to a leaking or open container.								
				ainer.	2>					
		First responde	ers should wear eye protection. Structural firefighter	ainer. s must wear SCBAs and full	2					
		First responde protective equ	ers should wear eye protection. Structural firefighter ipment. Use a water spray or fog to reduce or direct	ainer. s must wear SCBAs and full	2					
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7.1	Work & Hygiene Practices:	First responde protective equ effective in act <u>HazChem Coo</u> <u>Hazard Identifi</u> 6 Before cleanin Equipment. For <u>small spill</u> Maximize venti absorbent mati local, state and soap. Remove For <u>large spills</u> material (e.g., recovery or dis promptly and v and open bodie 7. Avoid prolonge ventilated local using this proc product.	ers should wear eye protection. Structural firefighter ipment. Use a water spray or fog to reduce or direc- ually extinguishing a fire involving this product. <u>Ie</u> : 3(Y)E <u>cation Number</u> : 33 ACCIDENTAL RELEASE MEASU Ing any spill or leak, individuals involved in spill clean is (e.g., < 1 gallon (3.8 L)) wear appropriate perso tilation (open doors and windows) and secure all s erial and place into appropriate closed container(s) fod d federal regulations. Wash all affected areas and contain exposed or earth). Use ONLY non-sparking tools for rec- sposal and solid diking material to separate containers wash affected skin areas with soap and water. Keep es of water. HANDLING & STORAGE INFORM ed contact with this material. Avoid breathing the va- tion (e.g., local exhaust ventilation, fans). Wash exposi- duct. If necessary, use a moisturizer after washing.	ainer. s must wear SCBAs and full t vapors. Water may not be IRES anup must wear appropriate Personal I onal protective equipment (e.g., goggles ources of ignition. Remove spilled mat r disposal. Dispose of properly in accord outside of container with plenty of warm v re reuse. acted individuals. Dike and contain spill overy and cleanup. Transfer liquid to con for proper disposal. Remove contaminate spills and cleaning runoffs out of municip ATION vapors generated by this product. Use sed skin thoroughly with plenty of soap & w Do not eat, drink, or smoke while han aust ventilation, fans). Keep away from o	s, gloves terial wi lance wi water an with in tainers ed clothi bal sewe in a we water aft adling th excession					
7.1	Work & Hygiene Practices:	First responde protective equ effective in act <u>HazChem Coo</u> <u>Hazard Identifi</u> 6 Before cleanin Equipment. For <u>small spill</u> Maximize venti absorbent mat local, state and soap. Remove For <u>large spills</u> material (e.g., recovery or dis promptly and v and open bodie 7 . Avoid prolonge ventilated local using this proo product.	ers should wear eye protection. Structural firefighter ipment. Use a water spray or fog to reduce or direc- ually extinguishing a fire involving this product. <u>Ie</u> : $3(Y)E$ <u>ication Number</u> : 33 ACCIDENTAL RELEASE MEASU og any spill or leak, individuals involved in spill clean is (e.g., < 1 gallon (3.8 L)) wear appropriate perso itilation (open doors and windows) and secure all serial and place into appropriate closed container(s) for d federal regulations. Wash all affected areas and contained clothing and wash thoroughly befor s (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprote sand or earth). Use ONLY non-sparking tools for rec posal and solid diking material to separate containers wash affected skin areas with soap and water. Keep es of water. HANDLING & STORAGE INFORM ed contact with this material. Avoid breathing the va- tion (e.g., local exhaust ventilation, fans). Wash expose duct. If necessary, use a moisturizer after washing.	ainer. s must wear SCBAs and full t vapors. Water may not be IRES anup must wear appropriate Personal I onal protective equipment (e.g., goggles ources of ignition. Remove spilled mat r disposal. Dispose of properly in accord outside of container with plenty of warm of re reuse. Acted individuals. Dike and contain spill overy and cleanup. Transfer liquid to con for proper disposal. Remove contaminate spills and cleaning runoffs out of municip ATION /apors generated by this product. Use bed skin thoroughly with plenty of soap & w Do not eat, drink, or smoke while han aust ventilation, fans). Keep away from a Keep away from incompatible materials	s, gloves terial wi lance wi water ar with in tainers ed clothi bal sewe in a we water aft adling th excessi s listed					
7.1	Work & Hygiene Practices:	First responde protective equ effective in act <u>HazChem Cod</u> Hazard Identifi Before cleanin Equipment. For <u>small spill</u> Maximize vent absorbent mat local, state any soap. Remove For <u>large spills</u> material (e.g., recovery or dis promptly and vent and open bodie 7. Avoid prolonge ventilated locat using this proc product. Use and store heat, open flat Section 10. D when not in u	ers should wear eye protection. Structural firefighter ipment. Use a water spray or fog to reduce or direc- ually extinguishing a fire involving this product. <u>He</u> : $3(Y)E$ <u>ication Number</u> : 33 ACCIDENTAL RELEASE MEASU ing any spill or leak, individuals involved in spill clean is (e.g., < 1 gallon (3.8 L)) wear appropriate person tilation (open doors and windows) and secure all se erial and place into appropriate closed container(s) for d federal regulations. Wash all affected areas and co e any contaminated clothing and wash thoroughly befo <u>se</u> (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprote sand or earth). Use ONLY non-sparking tools for rec posal and solid diking material to separate containers wash affected skin areas with soap and water. Keep es of water. HANDLING & STORAGE INFORM duct. If necessary, use a moisturizer after washing. in a cool, dry, well-ventilated location (e.g., local exh- mes, sparks, and other possible sources of ignition. to not store in damaged or unmarked containers or se. Open slowly on a level, stable surface. Empty	ainer. s must wear SCBAs and full t vapors. Water may not be IRES banup must wear appropriate Personal I bonal protective equipment (e.g., goggles ources of ignition. Remove spilled mat r disposal. Dispose of properly in accord outside of container with plenty of warm of re reuse. Bected individuals. Dike and contain spill overy and cleanup. Transfer liquid to con for proper disposal. Remove contaminate spills and cleaning runoffs out of municip ATION rapors generated by this product. Use is sed skin thoroughly with plenty of soap & w Do not eat, drink, or smoke while han aust ventilation, fans). Keep away from of Keep away from incompatible materials storage devices. Keep containers secure r containers may contain residual amour	s, glove: terial willance w water an with in ttainers ed clothi bal sewe in a we water aff adling th excessi s listed ely closents of th					
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		8. EXPOSURE CONT	ROL	<u>_S &</u>	PERS	<u>ONAL</u>	<u>. PRO</u>	TEC	ION		
8.1	Exposure Limits:		AC	GIH		NOHSC	1		OSHA	1	OTHER
	ppm (mg/m ³)	CHEMICAL NAME(S)	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	
		ETHYL METHACRYLATE	(15)	NA	NF	NF	NF	(10)	NA	NA	
		BUTYLATED HYDROXYTOLUENE (BHT)	NA	NA	NF	10	NF	NA	NA	NA	
8.2	Ventilation & Engineering Controls:	When working with large quan Ensure that an eyewash station,									aust ventilation, fans
3.3	Respiratory Protection:	No special respiratory protection									f
		necessary, use only respiratory §1910.134, or applicable U.S. provinces, E.C. member states, c	protect state r	tion aut egulatio	horized p	er U.S.	OSHA's i	requirer	ment in	29 CFF	2
3.4	Eye Protection:	Depending on the use of this pro U.S. OSHA 29 CFR §1910.133, 0	duct, sp	blash or						, refer to	
8.5	Hand Protection:	AVOID SKIN CONTACT DUE								onged 8	k l
		repeated skin contact will occur of industrial use. If necessary, refe Canada, of the E.C. member stat	r to Ŭ.S								
8.6	Body Protection:	AVOID SKIN CONTACT DUE protection is required under typ appropriate standards of Canada	TO S	cumstar	nces of u	ise and l	nandling.				
	I	· · · · ·									
	A	9. PHYSICAL	άC	HEMI		-KOb	EKIIE	3			
9.1	Appearance:	Blue liquid									
9.2	Odor:	Mild acrylic odor									
9.3 9.4	Odor Threshold: pH:	NE									
9.4	Melting Point/Freezing Point:	NA									
9.5 9.6	Initial Boiling Point/Boiling	NE									
.0	Range:	117 °C (243 °F)									
9.7	Flashpoint:	21 °C (70 °F)									
9.8	Upper/Lower Flammability Limits:	ND									
9.9	Vapor Pressure:	NA									
9.10	Vapor Density:	Vapor density (Air=1): > 1.0									
9.11	Relative Density:	0.918									
9.12	Solubility:	Slightly soluble									
9.13	Partition Coefficient (log Pow):	NA									
9.14	Autoignition Temperature:	ND									
9.15	Decomposition Temperature:	NA									
9.16	Viscosity:	NE									
9.17	Other Information:	NA									
		10. STA	BILI	TY &	REAC	TIVIT	Y				
10.1	Stability:	Relatively stable under ambient of									
10.2	Hazardous Decomposition Products:	If exposed to <u>extremely high ten</u> gases (e.g., oxides of carbon & n			oducts of	thermal	decompo	sition n	nay inclu	ude irrita	ating vapors and to
10.3	Hazardous Polymerization:	May occur, if exposed to extreme	ly high	tempera	atures.						
10.4	Conditions to Avoid:	Exposure or contact to extreme to	empera	itures, ir	ncompatik	ole chemi	cals, stro	ng light	sources	, sparks	s, flame.
10.5	Incompatible Substances:	Strong oxidizers, peroxides, stror	ng alkal	is or aci	ds.			0 0			·
		11. TOXICO	DLO	GICA	L INFO	ORMA	TION				
11.1	Routes of Entry:	Inhalation: YES					ES			Ingest	tion: YES
11.2	Toxicity Data:	This product has not been tested of this product, which are found in									ta for the componen
11.3	Acute Toxicity:	See Section 4.4									
11.4	Chronic Toxicity:	See Section 4.5			(5)						
11.5	Suspected Carcinogen:	This product contains <u>Butylated</u> carcinogens by the IARC.	Hydrox	ytoluen	e (BHT)	which is	not carcii	nogenic	to hum	ans, bu	it is listed as Group



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		11. TOXICOLOGICAL INFORMATION – cont'd			
11.6	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.			
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans. However, animal mutation data are available for			
		the components of this product.			
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.			
	Teratogenicity:	This product is not reported to produce teratogenic effects in humans.			
11.7	Reproductive Toxicity: Irritancy of Product:	This product is not reported to produce reproductive effects in humans. See Section 4.3			
11.8	Biological Exposure Indices:	NE			
11.9	Physician Recommendations:	Treat symptomatically.			
		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:				
		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 Characteristic Waste: D001 (characteristic - ignitable)			
		14. TRANSPORTATION INFORMATION			
		, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive informati			
may	be required by 49 CFR, IATA	/ICAO, IMDG and the CTDGR.			
14.1	49 CFR (GND):	UN2277, ETHYL METHACRYLATE, STABILIZED, 3, II, LTD QTY (IP VOL ≤ 1.0 L); or			
		CONSUMER COMMODITY, ORM-D – until 01/01/2021			
14.2	IATA (AIR):	UN2277, ETHYL METHACRYLATE, STABILIZED, 3, II			
		ID8000, CONSUMER COMMODITY, 9 (IP VOL \leq 0.5 L)			
14.3	IMDG (OCN):	UN2277, ETHYL METHACRYLATE, STABILIZED, 3, II, LTD QTY (IP VOL ≤ 1.0 L)			
14.4	TDGR (Canadian GND):	UN2277, ETHYL METHACRYLATE, STABILIZED, 3, II, LTD QTY (IP VOL ≤ 1.0 L) UN2277, ETHYL METHACRYLATE, STABILIZED, 3, II, LTD QTY (IP VOL ≤ 1.0 L); or "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (IP VOL ≤ 1.0 L) UN2277, ETHYL METHACRYLATE, STABILIZED, 3, II, LTD QTY (IP VOL ≤ 1.0 L)			
14.5	ADR/RID (EU):	UN2277, ETHYL METHACRYLATE, STABILIZED, 3, II, LTD QTY (IP VOL ≤ 1.0 L)			
14.6	SCT (MEXICO):	UN2277, ETHYL METHACRYLATE, STABILIZED, 3, II, CANTIDAD LIMITADA (IP VOL ≤ 1.0 L)			
14.7	ADGR (AUS):	UN2277, ETHYL METHACRYLATE, STABILIZED, 3, II, LTD QTY (IP VOL ≤ 1.0 L)			
		15. REGULATORY INFORMATION			
15.1	SARA Reporting				
	Requirements:	This product does not contain any substances subject to SARA Title III, Section 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.			
15.4	CERCLA Reportable Quantity	Ethyl Methacrylate: 454 kg (1,000 lbs)			
15.5	(RQ): Other Federal Requirements:	This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter			
15.6	Other Canadian Regulations:	(Cosmetics).			
10.0	Ganer Ganaulan 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>Ethyl Methacrylate</u> is found on the following state criteria lists: Florida Toxic Substances List (FL), Massachuse Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (N Pennsylvania Right-to-Know List (PA), and Wisconsin Hazardous Substances List (WI). <u>Glycol Hema-Methacrylate</u> is found on the following state criteria lists: NJ and PA.			
		Butylated Hydroxytoluene (BHT) is found on the following state criteria lists: FL, MA, MN, PA, and WA. Dimethyltolylamine is found on the following state criteria lists: NJ and PA.			
		No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following st criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substance List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardou			
		Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylva 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 component of this product is listed in Annex I of EU Directive 67/548/EEC: <u>Ethyl Methacrylate</u> : Flammable, Irritant (F, Xi). <u>Risk Phrases</u> (R): R11-36/37/38-43 - Highly flammable. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. <u>Safety Phrases</u> (S): S (2-)9-16-29-33 - Keep out of the reach of children. Keep container in a well- ventilated place. Keep away from sources of ignition - No smoking. Do not empty into drains. Take precautionary measures against static discharges. <u>Hydroxypropyl Methacrylate</u> : Irritant (Xi). <u>Risk Phrases</u> (R): 36/38-43 – Irritating to eyes and skin. May cause sensitization by skin contact. <u>Safety Phrases</u> (S): (2)-26-28 – Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and warm water.
		16. OTHER INFORMATION
16.1	Other Information:	DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES EYE IRRITATION. Keep away from heat/sparks/open flame/hot surfaces – No Smoking. Keep container tightly closed. Avoid breathing fume/mist/vapours/spray. 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. Use only in a well-ventilated area. A ventilation system that expels vapors to the outdoors is recommended. Harmful or fatal if swallowed! If skin irritation or a rash occurs – Get medical advice/attention. Store in a well-ventilated place. Keep cool. 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. Othe 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: 4.1

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 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:

Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood CPR and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTION
4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:

Α					G		E		
в					н		(E)		
С					I		(EV)		
D	B				J		(EV)	Î	
Е					к		(EV)		
F					X	Consult for spec	your su ial hanc	pervisor o Iling direct	or SOPs tions.
Sa	fety Glas	ses	Splash	Goggles		e Shield & tive Eyew		Glov	es
	Boots		Syntheti	c Apron		tive Cloth	ing	Dust Res	pirator

OTHER STANDARD ABBREVIATIONS:

Full Face Respirator

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

Full Face

Respirator

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

Dust & Vapor Half-

Mask Respirator

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				
ох	Oxidizer				
TREFOIL	Radioactive				



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
	S
LC 50	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{Io}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC _o , LC _{lo} , & LC _o	
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					
EU	EU European Union (European Union Directive 67/548/EEC)					
WGK	Wassergefährdungsklassen (German Water Hazard Class)					

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

\bigcirc	۲	٨		Ð	۲		Ŕ
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:

Ð

Airline Hood/Mask

or SCBA

¶. <mark>*●</mark>		×	*		® X	×	×
с	E	F	Ν	0	O T Xi		Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

			\Diamond					×
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment