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

SDS Revision: 3.1

	1.	PRODUC	T & COM	PANY	IDF	NTIF		TION					
Product Name:			MICROS							= G	FI		
Chemical Name:	Methacrylate				0.0								
Synonyms:	NA	WIXture											
Trade Names:	MBM25												
Product Use:	Professional I	lse Only											
Distributor's Name:	OPI Products	,											
Distributor's Address:			ollywood, CA 9	91605 USA	1								
Emergency Phone:			527-3887 /			-0300		N 163	77)				
Business Phone / Fax:		2400 / +1 (818		+1 (000	7444	-5500	00)	11 105	,,,,				
	11 (010) 700	2400711 (010	,100 0110										
		2. H/	AZARDS	IDENTI	FIC	ΑΤΙΟ	<b>DN</b>						
Hazard Identification:			s a hazardous						ds acc	cordin	g to th	ne	
			HSC: 1008 (200	,		•	,		o		07101		
	-		(IN IRRITATIO	JN. MAY	CAUS	SE AN	ALLE	RGIC	SKIN	REA	CTION	N.	
		· Skin Irrit 2: 9	Skin Sens. 1A;	Evo Irrit 2	Δ								
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		es serious eye		an maioi		, · ivic	ay caus		ilergie s	JAITT	Cacilo	•••	
			(P): P261 – A	void breat	hina fu	ıme/ m	nist/vac	ors/spr	rav. P	264 -	– Was	sh	
			ghly with soap										
	clothing shou	uld not be allo	wed out of the	e workplac	e. P2	80 – \	Near p	rotectiv	/e glov	/es/pr	otectiv	/e	<b>i</b>
	clothing should not be allowed out of the workplace. P280 – Wear protective gloves/protective clothing/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 minu												
	P305+P351+	P338 – IF IN	EYES: Rinse	continuou	isly wi	th wat	er for	severa	I minut	tes. F	Remov	/e	
	P305+P351+ contact lense	P338 – IF IN s if present an	EYES: Rinse d easy to do -	continuou continue r	isly wi insing.	th wat P333	er for +P313	severa – If ski	I minut in irritat	tes. F tion o	Remov or a ras	/e sh	$\mathbf{\vee}$
	P305+P351+ contact lense occurs – Get	P338 – IF IN s if present an medical advid	EYES: Rinse d easy to do – ce/attention. F	continuou continue r 2321 – For	isly wi insing. ′ speci	th wat P333 fic first	er for +P313 t aid tre	severa – If ski eatmen	I minut in irritat t (See	tes. F tion o Sect	Remov or a ras ion 4 (	ve sh of	$\mathbf{\vee}$
	P305+P351+ contact lense occurs – Get this Safety D	P338 – IF IN s if present an medical advid ata Sheet). P3	EYES: Rinse d easy to do – ce/attention. F 363 – Wash co	continuou continue r 321 – For ntaminated	usly wi insing. speci d clothi	th wat P333 fic first ing bef	er for +P313 t aid tre ore reu	severa – If ski eatmen ise. P3	I minut in irritat t (See 370+P3	tes. F tion o Sect 378 –	Remover a ras ion 4 e In cas	ve sh of se	$\mathbf{\vee}$
	P305+P351+ contact lense occurs – Get this Safety D of fire, CO <sub>2</sub> ,	P338 – IF IN s if present an medical advid ata Sheet). P3 Halon (if pern	EYES: Rinse d easy to do – ce/attention. F 363 – Wash co nitted), dry che	continuou continue r 2321 – For ntaminated mical, or t	usly wi insing. speci d clothi foam f	th wat P333 fic first ing bef or exti	er for +P313 t aid tre ore reunction.	several – If ski eatmen ise. P3 P403-	I minut in irritat t (See 370+P3 +P235	tes. F tion o Sect 378 – – Ste	Remov or a ras ion 4 o In cas ore in	ve sh of se a	$\mathbf{\vee}$
	P305+P351+ contact lense occurs – Get this Safety D of fire, CO <sub>2</sub> , well-ventilate	P338 – IF IN s if present an medical advid ata Sheet). P3 Halon (if pern d place. Keep	EYES: Rinse d easy to do – ce/attention. F 363 – Wash co nitted), dry che o cool. P501 -	continuou continue r 2321 – For ntaminated mical, or t	usly wi insing. speci d clothi foam f	th wat P333 fic first ing bef or exti	er for +P313 t aid tre ore reunction.	several – If ski eatmen ise. P3 P403-	I minut in irritat t (See 370+P3 +P235	tes. F tion o Sect 378 – – Ste	Remov or a ras ion 4 o In cas ore in	ve sh of se a	$\mathbf{\vee}$
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JRETHANE ACRYLATE	P305+P351+ contact lense occurs – Get this Safety D of fire, CO <sub>2</sub> , well-ventilate storage or dis	P338 – IF IN s if present an medical advid ata Sheet). P3 Halon (if pern d place. Keep sposal facility (	EYES: Rinse d easy to do – ce/attention. F 363 – Wash co nitted), dry che o cool. P501 - TSDF).	continuou continue r 2321 – For ntaminated mical, or f – Dispose	usly wi insing. · speci d clothi foam f of con ENT	th wat P333 fic first ing bef or extil tents/c INF	er for +P313 t aid tre- ore reu- nction. containe ORN	severa – If ski eatmen use. P3 P403- er to a <b>IATI(</b> EXPOS NOHSC ppm ES-	I minut in irritat t (See 370+P3 +P235 license DN URE LIM ES- PEAK	tes. F tion o Sect 378 – - Ste ed tre	Remov or a ras ion 4 o In cas ore in eatmen <u>AIR (mg</u> OSHA	ve sh of se a a ht,	OTHE
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URETHANE ACRYLATE MER LATES COPOLYMER HYLENEGLYCOL HACRYLATE QUATERNIUM-37 DIMETHYL SILYLATE DYL ISOPROPANOL	P305+P351+ contact lense occurs – Get this Safety D of fire, CO <sub>2</sub> , well-ventilate storage or dis <b>3. CC</b> <u>CAS No.</u> NA <u>25133-97-5</u> Skin Irrit. 2; E 109-16-0 <u>26161-33-1</u> <u>68611-44-9</u> 7473-98-5	P338 – IF IN s if present an medical advia ata Sheet). P3 Halon (if perm d place. Keep sposal facility ( DMPOSIT NA NA NA NA Ve Irrit. 2; Aq. Cf OZ4100000 KQ630000 NA	EYES: Rinse d easy to do – ce/attention. F 863 – Wash co nitted), dry che o cool. P501 - TSDF). ION & INO EINECS NO. NA NA NA ronic 4; H315, H 203-652-6 NA 271-893-4	continuou continue r '321 – For ntaminated emical, or f - Dispose GREDI 60-100 15-40 319, H413 10-30 1.0-5.0	ISIY Wi Insing. Specid clothi foam f of con ENT ENT NA NA NA	th wat P333 fic first ing bef or extii tents/c INF M STEL NA NA NA NA	er for +P313 t aid tre- fore reu- nction. containe ORN ES- TWA NF NF NF NF NF	Several - If ski eatmen Ise. P3 P403- er to a MATIO EXPOS NOHSC ppm ES- STEL I NF NF NF NF NF	I minut in irritat t (See 370+P3 +P235 license <b>ON</b> URE LIM ES- PEAK NF NF NF NF NF	tes. F tion o Sect 378 – Stored tree NA NA NA NA	Removor a rasion 4 of In casione a rasion 4 of In casione at menine at the set of the se	ve sh of se a a nt,	OTHE
JRETHANE ACRYLATE MER LATES COPOLYMER HYLENEGLYCOL HACRYLATE QUATERNIUM-37 A DIMETHYL SILYLATE DYL ISOPROPANOL TRIDECETH 6 YLENE GLYCOL	P305+P351+ contact lense occurs – Get this Safety D of fire, CO <sub>2</sub> , well-ventilate storage or dis <b>3. CC</b> <u>CAS No.</u> NA <u>25133-97-5</u> Skin Irrit. 2; E 109-16-0 <u>26161-33-1</u> <u>68611-44-9</u> 7473-98-5 Acute Tox. 4;	P338 – IF IN s if present an medical advice tata Sheet). P3 Halon (if perm d place. Keep sposal facility ( DMPOSIT DMPOSIT NA NA NA Ve Irrit. 2; Aq. Ch OZ4100000 KQ630000 NA UC2977245 H302	EYES: Rinse d easy to do – ce/attention. F 363 – Wash co nitted), dry cheo o cool. P501 - TSDF). ION & INO EINECS No. NA NA INA INA INA INA 203-652-6 NA 2211-893-4	continuou continue r '321 – For ntaminated emical, or f - Dispose <b>GREDI</b> 60-100 15-40 319, H413 10-30 1.0-5.0 1.0-5.0	ISIY Wi Insing. Specid Clothi foam f of con ENT AC PF TLV NA NA NA	th wat P333 fic first ing bef or extii tents/c INF GIH STEL NA NA NA NA	er for +P313 t aid tre- fore reu- nction. containe ORN Es- TWA NF NF NF NF NF NF	Several – If ski eatmen ISE. P3 P403- er to a <b>IATIO</b> EXPOS NOHSC ppm ES- STEL I NF NF NF NF NF NF	I minut in irritat t (See 370+P3 +P235 license <b>ON</b> URE LIM S NF NF NF NF NF	tes. F tion o Sect 378 – - Stu ed tre NA NA NA NA NA	Removor a rasion 4 of In casor a rasion 4 of In casor a rasion a rasional rasional a rasional	/e sh of se a nt, nt, NA NA NA NA	
CAL NAME(S) URETHANE ACRYLATE DMER LATES COPOLYMER HYLENEGLYCOL THACRYLATE QUATERNIUM-37 A DIMETHYL SILYLATE OYL ISOPROPANOL TRIDECETH 6 YLENE GLYCOL RYLATE/DICAPRATE	P305+P351+ contact lense occurs – Get this Safety D: of fire, CO <sub>2</sub> , well-ventilate storage or dis <b>3. CC</b> cas no. NA 25133-97-5 Skin Irrit. 2; E 109-16-0 26161-33-1 68611-44-9 7473-98-5 Acute Tox. 4; NA	P338 – IF IN s if present an medical advid ata Sheet). P Halon (if perm d place. Keep sposal facility ( DMPOSIT NA NA NA Ve Irrit. 2; Aq. Ch OZ4100000 KQ630000 NA UC2977245 H302 NA	EYES: Rinse d easy to do – ce/attention. F 363 – Wash co nitted), dry che o cool. P501 - TSDF). ION & ING EINECS No. NA NA 271-893-4 231-272-0 NA	continuou continue r 2321 – For ntaminated emical, or f – Dispose <b>GREDI</b> 60-100 15-40 319, H413 10-50 1.0-5.0 1.0-5.0	ISIY Wi Insing. Specid clothi foam f of con ENT AC PF TLV NA NA NA NA	th wat P333 fic first ing bef or extii tents/c INF GIH STEL NA NA NA NA NA	er for +P313 t aid tre- fore reu- nction. containe ORN	several - If ski eatmen Ise. P3 P403- er to a IATI( EXPOS NOHSC ppm ES- STEL I NF NF NF NF NF NF NF	I minut in irritat t (See 370+P3 +P235 license <b>DN</b> ure Lim <b>DN</b> <b>DN</b> ure Lim NF NF NF NF NF NF NF	tes. F tion o Sect 378 – - Str ed tre NA NA NA NA NA NA	Removor a ras ion 4 o In cas ore in eatmen AIR (mg OSHA ppm STEL NA NA NA NA NA NA	/e sh of se a nt, it, IDLH NA NA NA NA NA	



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		4. FIRST AID MEASURES	
4.1	First Aid:	Ingestion:       If ingested, do not induce vomiting!       If product has been swallowed, drink IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Neve unconscious person. Contact Rocky Mountain Poison Control Center at 1-303 Poison Control Center or local emergency number. Provide an estimate of the was ingested and the amount of the substance that was swallowed.         Skin:       If irritation occurs & product is on the skin, rinse thoroughly with lukewarm water washing of the affected area with plenty of soap and water. Remove contamt thoroughly before reuse. If irritation, redness or swelling persists, consult a physical sectors.	er give water or milk to an i-623-5716 or the nearest time at which the material er, followed by a thorough inated clothing and wash cian immediately.
		Eves:         If product gets in the eyes, flush with copious amounts of lukewarm water for a and close eyelid(s) to ensure thorough irrigation. If irritation persists seek immed           Inhalation:         Remove victim to fresh air at once. If breathing stops, perform artificial respondical attention.	iate medical attention.
4.2	Effects of Exposure:	Ingestion: If product is swallowed, may cause nausea, headache, vomiting and/or diarr system depression.	
		Eves:         Irritating to the eyes.         Symptoms of overexposure may include redness, itching, ir           Skin:         May be irritating to skin in some sensitive individuals, especially after prolonged a           Inhalation:         Inhalation of vapors is unlikely under normal conditions of use and handling; how in excess of the levels listed in Section 3 (Composition and Ingredient Inform nervous system depression (e.g., drowsiness, dizziness, headaches, nausea).	ind/or repeated contact. vever, inhalation of vapors
4.3	Symptoms of Overexposure:	Symptoms of skin overexposure in some sensitive individuals may include redness, itching areas. Overexposure in eyes may cause redness, itching and watering.	and irritation of affected
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, Skin.	
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions, and disorders of the HEALTH target organs (eyes, skin, and respiratory system). FLAMMABILITY PHYSICAL HAZARI PROTECTIVE EQUI EYES SKIN	
		5. FIREFIGHTING MEASURES	
5.1	Fire & Explosion Hazards:	Keep away from heat, lit cigarettes, sparks & open flame and other sources of heat. k container closed.	беер
5.2	Extinguishing Methods:	CO <sub>2</sub> , Halon (if permitted), Dry Chemical or Foam, as authorized.	
5.3	Firefighting Procedures:	<ul> <li>When involved in a fire, this product will ignite readily and decompose to produce carbon oxid Vapors of this product are heavier than air and may travel to a source of ignition and flash back a leaking or open container.</li> <li>First responders should wear eye protection. Structural firefighters must wear SCBAs and protective equipment. Use a water spray or fog to reduce or direct vapors. Water may not effective in actually extinguishing a fire involving this product.</li> <li>HazChem Code: NA</li> <li>Hazard Identification Number: NA</li> </ul>	ck to I full
		6. ACCIDENTAL RELEASE MEASURES	
6.1	Spills:	<ul> <li>Before cleaning any spill or leak, individuals involved in spill cleanup must wear approp Equipment. For <u>small spills</u> (e.g., &lt; 1 gallon (3.8 L)) wear appropriate personal protective gloves). Maximize ventilation (open doors and windows. Remove spilled material with absorbe appropriate closed container(s) for disposal. Dispose of properly in accordance with local, star Wash all affected areas and outside of container with plenty of warm water and soap. R clothing and wash thoroughly before reuse.</li> <li>For <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike a material (e.g., sand or earth). Transfer liquid to containers for recovery or disposal and solid or containers for proper disposal. Remove contaminated clothing promptly and wash affected water.</li> </ul>	equipment (e.g., goggles, ent material and place into the and federal regulations. emove any contaminated and contain spill with inert diking material to separate



10.2

10.3

10.4

10.5

Hazardous Decomposition

Hazardous Polymerization:

Incompatible Substances:

Conditions to Avoid:

Will not occur.

Strong oxides, peroxides or strong acids.

Products:

# **SAFETY DATA SHEET**

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Prepa	red to OSHA, ACC, ANSI, N	OHSC, WHMIS, 2001/58 & 1272/2008/EC Standards   SDS Revision: 3.1   SDS Revision Date: 2/8/2016			
		7. HANDLING & STORAGE INFORMATION			
7.1	Work & Hygiene Practices:	Avoid prolonged contact with the product. After use, wash hands and exposed skin with soap and water. Do not eat,			
		drink or smoke while handling product.			
7.2	Storage & Handling:	Keep this material away from heat, sparks and open flame. Open containers slowly on a stable surface. Keep container closed tightly when not in use. Empty container may contain residual amounts of this product; therefore, empty containers should be handled with care. Store containers in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat. Store away from incompatible materials (See Section 10, Stability and Reactivity). Material should be stored in secondary containers as appropriate.			
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.			
-					
		8. EXPOSURE CONTROLS & PERSONAL PROTECTION			
8.1	Exposure Limits: ppm (mg/m <sup>3</sup> )	ACGIH NOHSC OSHA OTHER			
		CHEMICAL NAME(S)         TLV         STEL         TWA         STEL         PEAK         PEL         STEL         IDLH           NA         NA         NF         NF         NF         NA         NA         NA			
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. 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.			
8.4	Eye Protection:	Avoid eye contact. None required under normal conditions of use. However, may cause irritation in some sensitive individuals. Depending on the use of this product, splash or safety glasses may be worn. If necessary, refer to U.S. OSHA 29 CFR §1910.133, Canadian standards, or the European Standard EN166. When handling large quantities (e.g., ≥ 1 gallon), safety glasses with side shields should be used.			
8.5	Hand Protection:	AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. If anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex or rubber gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the E.C. member states.			
8.6	Body Protection:	<b>AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL.</b> However, no special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA.			
		9. PHYSICAL & CHEMICAL PROPERTIES			
9.1	Appearance:				
9.2	Odor:	White viscous gel Characteristic acrylates odor			
9.3	Odor Threshold:				
9.4	pH:	NA NA			
9.5	Melting Point/Freezing Point:	NA			
9.6	Initial Boiling Point/Boiling	> 212 °F			
9.7	Range: Flashpoint:				
9.8	Upper/Lower Flammability Limits:	> 82 °C (180 °F) c.c. NA			
9.9	Vapor Pressure:	NA			
9.10	Vapor Density:	NA			
9.11	Relative Density:	NA			
9.12	Solubility:	Immiscible			
9.13	Partition Coefficient (log Pow):	NA			
9.14	Autoignition Temperature:	NA			
9.15	Decomposition Temperature:	NA			
9.16	Viscosity:	100,000 cPs			
9.17	Other Information:	NA			
		10. STABILITY & REACTIVITY			
10.1	Stability:	Relatively stable under ambient conditions when stored properly			

If exposed to <u>extremely high temperatures</u>, products of thermal decomposition may include irritating vapors and toxic gases (e.g., oxides of carbon & nitrogen).

Exposure to or contact with extreme temperatures, incompatible chemicals, strong light sources, sparks, flame.



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		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: YES
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. There are toxicology data for the components
		of the product, which are found in scientific literature. These data have not been presented in this document.
11.3	Acute Toxicity:	See Section 4.4
11.4	Chronic Toxicity:	See Section 4.5
11.5	Suspected Carcinogen:	No
11.6	Reproductive Toxicity:	This product is not reported to cause reproductive toxicity in humans.
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.
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:	
12.1	Effects on Plants & Animals:	This product will slowly volatile from soil. Components of this product will slowly decompose into organic compounds.
12.2	Effects on Aquatic Life:	There are no specific data available for this product.
12.5	Enects 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 Safety Data Sheet.
10.1	Weste Dispessi	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
		, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information /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:	This product does not contain any substances subject to SARA Title III, Section 313 reporting requirements.
15.2	SARA Threshold Planning	There are no specific Threshold Planning Quantities for the components of this product.
15.3	Quantity: TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.
15.4	CERCLA Reportable Quantity	NA
	(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).
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. WHMIS D2B (Other Toxic Effects)
15.7	State Regulatory Information:	None of the 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 Toxi 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: Irritant (Xi). <u>Risk Phrases</u> (R): 36/37/38 – Irritation to eyes, respiratory system and skin. <u>Safety</u> <u>Phrases</u> (S): 2-7-16-24/25/26 – 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.



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		16. OTHER INFO	DRMATION
16.1	Other Information:	<b>IRRITATION.</b> Avoid breathing fume/ mist/vapors handling. Wear protective gloves/eye protection Rinse continuously with water for several minute If skin irritation or a rash occurs – Get medical a follow directions and MSDS (available through )	<b>CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE</b> /spray. Wash exposed skin areas thoroughly with soap and water after /face protection. IF ON SKIN: Wash with soap and water. IF IN EYES: es. Remove contact lenses if present and easy to do – continue rinsing. advice/attention. Store in a well-ventilated place. Keep cool. Precisely your supplier) for use. Avoid skin contact. If redness or other signs of ately. <b>KEEP OUT OF REACH OF CHILDREN. FOR PROFESSIONAL</b>
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for ap the information contained herein is reliable and is not guaranteed and no warranties of any type herein relates only to the specific product(s).	OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other plicability to this product. To the best of ShipMate's & OPI's knowledge, accurate as of this date; however, accuracy, suitability or completeness e, either expressed or implied, are provided. The information contained If this product(s) is combined with other materials, all component anged 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	O·P·I
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	ShipMate Dungerous Goods Training & Consulting



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### **DEFINITION OF TERMS**

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following: **GENERAL INFORMATION:** 

### CAS No. Chemical Abstract Service Number

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

ACGIH	American Conference on Governmental Industrial Hygienists
TLV	Threshold Limit Value
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
IDLH	Immediately Dangerous to Life and Health

#### FIRST AID MEASURES:

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:

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в			н		
С		E.	I		
D		E.	J		) 🗿 🕄
Е			К		
F			X	Consult your for special ha	supervisor or SOPs andling directions.
				_	
Sa	ifety Glasses	Splash Goggles		e Shield & tive Eyewear	Gloves
			X		$\bigcirc$
	Boots	Synthetic Apron	Protect	tive Clothing Full Suit	Dust Respirator

### **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

Airline Hood/Mask

or SCBA

#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

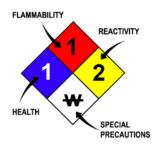
Dust & Vapor Half-

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 <sub>lo</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>lo</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
TLm	Median threshold limit
log Kow or log Koc	Coefficient of Oil/Water Distribution

#### **REGULATORY INFORMATION:**

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	WHMIS	Canadian Workplace Hazardous Material Information System					
EPA       U.S. Environmental Protection Agency         DSL       Canadian Domestic Substance List         NDSL       Canadian Non-Domestic Substance List	DOT	U.S. Department of Transportation					
DSL Canadian Domestic Substance List NDSL Canadian Non-Domestic Substance List	TC	Transport Canada					
NDSL Canadian Non-Domestic Substance List	EPA	U.S. Environmental Protection Agency					
	DSL	Canadian Domestic Substance List					
PSI Canadian Priority Substances List	NDSL	Canadian Non-Domestic Substance List					
	PSL	Canadian Priority Substances List					
TSCA U.S. Toxic Substance Control Act	TSCA	U.S. Toxic Substance Control Act					
EU European Union (European Union Directive 67/548/EEC)	EU	European Union (European Union Directive 67/548/EEC)					
WGK Wassergefährdungsklassen (German Water Hazard Class)	WGK	Wassergefährdungsklassen (German Water Hazard Class)					

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

0	۲	٨		•	۲		R
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:

¶		N	¥	8	®.	×	×
с	E	F	Ν	0	т	Xi	Xn
Corrosive	Explosive	Flammabl e	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

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