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MATERIAL SAFETY DATA SHEET

Page 1 of 8 MSDS-066

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 1.1

MSDS Revision Date: 11/01/2006

	1. PRODUCT IDENTIFICATION		
1.1	Product Name:		
	OPI TOP COAT		
1.2	Chemical Name: SOLVENT MIXTURE		
1.3	Synonyms: NA		
1.4	Trade Names: NTT30, NTT34		
1.5	Product Use: COSMETIC USE ONLY		
1.6	Monufacturer's Name: OPI PRODUCTS, INC.		
1.7	Manufacturer's Address: 13034 SATICOY STREET, NO. HOLLYWOOD, CA 91605 USA		
1.8	Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300		
1.9	Business Phone:		
	+1 (818) 759-2400 / +1 (800) 341-9999		
	2. HAZARD IDENTIFICATION		
2.1	Hazard Identification: Flammable liquid. This product is classified as a hazardous substance and as dangerous goods according to the classification criteria		
2.2	of NOHSC and ADG Code (Australia). Routes of Entry: Inhalation: YES Absorption: YES Ingestion: YES		
2.3	Effects of Exposure:		
	INGESTION: If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression.		
	SKIN & EYES: Irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering. May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact.		
	INHALATION: Vapors of this product may be slightly irritating to the nose, throat and other tissues of the respiratory system. Symptoms of overexposure can include coughing, wheezing, nasal congestion, and difficulty breathing. Inhalation of vapors exceeding the levels listed in Section 2 (Composition and Ingredient Information) can cause central nervous system depression (e.g., drowsiness, dizziness, headaches, nausea).		
2.4	Symptoms of Overexposure:		
	Symptoms of skin overexposure in individuals may include redness, itching, and irritation of affected areas. Overexposure in eyes may cause redness, itching and watering.		
2.5	Acute Health Effects:		
	Mild to moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.		
2.6	Chronic Health Effects: None known.		
2.7	Target Organs:		
I	Eyes, skin and respiratory system.		
	Not Available; ND = Not Determined; NE = Not Established; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used		
	 Not Available, ND Not Determined, NE = Not Established; C = Celling Limit, see Section 16 for Additional Definitions of remas all WHMIS required information is included. It is located in appropriate sections based on the ANSI 7400 1-2004 format 		

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			3. CO/	MPOSITIO	N & INGRE	DIEN		RMATIC	N			
		EXPOSURE LIMITS IN AIR (mg/m ³)										
							ACGIH	– ppm	c	SHA - pp	m	OTHE
	CHEMICAL NA	ME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	PEL	STEL	ID1H	
UTY	ACETATE		123-86-4	AF7350000	204-658-1	≤ 20.0	150	200	200	200	1700	150 TW A
OLU	ENE		108-88-3	XS5250000	203-625-9	≤ 20.0	50	NA	200	NA	NA	
(CR)	LATE COPOLYM	\ER	NA	NA	NA	≤10.0	NE	NE	NE	NE	NE	
THY	ACETATE		141-78-6	AH5425000	201-550-6	≤ 10.0	400	NE	400	NE	2000	400 TW /
HBU	YL PHTHALATE		84-74-2	TI0875000	201-557-4	≤10.0	NE	NE	NE	NE	NE	
MY	L ACETATE		628-63-7	AJ1925000	211-047-3	≤ 10.0	NE	NE	NE	NE	NE	
OSY ESIN	LAMIDE/FORMA I	LDEHYDE	25035-71-6	NA	NA	≤ 10.0	NE	NE	NE	NE	NË	
ITRO	OCELLULOSE		9004-70-0	QW0970000	NA	≤ 10.0	NE	NE	NE	NE	NE	
CELL	JLOSE ACETATE	BUTYRATE	9004-36-8	NA	NA	≤ 3.0	NE	NE	NE	NE	NE	
SOP	ROPYL ACETATE		108-21-4	AI4930000	203-561-1	≤ 3.0	NE	NE	NE	NE	NE	
ENZ	OPHENONE-1		131-56-6	DJ0700000	205-029-4	≤ 1.0	NE	NE	NE	NE	NE	
CI 60	725 (VIOLET #2)		81-48-1	CB7700000	201-353-5	≤ 1.0	NE	NE	NE	NE	NE	
				<u> </u>	RST AID N	FASII		ANT ADDI	TIONAL H	IAZARDS		
4.1	First Aid:		•,									· · · · ·
	INGESTION: EYES:	patient is vo nearest Pois ingested an Splashes ar	omiting, conti son Control C Id the amoun e not likely; h	e vomiting. If inue to offer w enter or local t of the substa owever, if pro cours, contact	ater or milk. emergency n nce that was s duct gets in th	Never gi umber. wallowe	<mark>ive water</mark> Provide a <mark>d.</mark>	or milk to n estimate	an unco of the fi	nscious p me at whi	person. C ich the me	ontact t aterial w
	SKIN:	If irritation o	occurs and pr	oduct is on the ap and water.	e skin, rinse the							
	INHALATION:	Remove vic	<mark>tim to fresh a</mark>	<mark>ir at once.</mark>								
	Medical Condition	ns Aggravated by	/ Exposure:					HEA				1
4.2	None known.							FLA	имав	JILITY		3
4.2	None known.											
4.2	None known.							REA	CTIVIT	Ϋ́		0
4.2	None known.										IPMEN	

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S. FIREFIGHTING MEASURES Subject 1 A behavior 1 °C (30 °F) estimated. Addigition femmenuum Addigition Add					
1-1°C (30 °F) estimated. 22 Aulightition traggeriture: NA 33 Reamadativ Unite: 44 Reamadativ Unite: 45 Reamadativ Unite: 46 Reamadativ Unite: 47 Reamadativ Unite: 48 Reamadativ Unite: 44 Reamadativ Unite: 45 Defingetities Methods: 46 Reactherm Code: 3YE Hacard Identification Number: 33 CC2, Halon, Dry Chemical, Foarn 54 Friefgining Proceedues: This product is a Class IB flammable liquid. When involved in a fire, this product will ignite readily and decompose to produce carbon oxides. Voppors 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 linefighters must wear SCBAs and full protective equipment. Use a water spray of tog to reduce or alicet vapors. Water may not be effective in actually extinguishing a fire Involving this product. 536: Esfore cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For and windows and secure al sources of lightice metry and window and secure al sources of lightice metry and spills end cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. <		5. FIREFIGHTING MEASURES			
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NA NA 33 Bornmobility Umit: Lower Explosive Limit (LEL): NE Upper Explosive Limit (UEL): NE 44 Free & Explosion Hararat: WARNING: Rammabilet Keep away from heat, III cigarettes, sparks & open flame. Keep container closed. So 54 Free & Explosion Hararat: WARNING: Rammabilet Keep away from heat, III cigarettes, sparks & open flame. Keep container closed. So 54 Freefgehren Code: 37E Harara I dentification Number: 33 CO ₂ , Halon, Dry Chemical, Foam 56 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 tog to reduce or direct vapors. Water may not be effective in actually extinguisting a fire involving this product. C. ACCCIDENTAL RELEASE MEASURES 6.1 Split: For solid protective equipment (e.g., goggles, gloves). Maximize ventilation (open door and windows) and secure all sources of ignition. Remove splited material with absorbent material and place into appropride closed container (or disposat. Dispose of properly in accordance with local state and federal regulations. Wast and appropride prosoptice requipment. Exporspring fools for recovery and cleanup. Tra					
53 Reamonability Limit: Lower Explosive Limit (LEL): NE Upper Explosive Limit (UEL): NE 54 Hee & Bojackin Hararat: WARNING: Rammabile! Keep away from head, III cigarettes, sparks & open flame. Keep container closed. Image Ministry Limit: NE 55 Extinguishing Methods: Harard Identification Number: 33 C.O., Halon, Dry Chemical, Foan C.O., Halon, Dry Chemical, Foan 56 Freighting Procedute: Cobing Ministry Limit: Ne State Cobing Ministry Limit: Ne 56 Freighting Procedute: Cobing Ministry Limit: Ne State: State: <t< th=""><th>5.2</th><th>•</th><th></th></t<>	5.2	•			
 first a Explosion Hoxards: WARNING: Rearmable! Keep away from heat, lit cigarettes, sparks & open flame. Keep container closed. Littiguiting Mathods: Hazcre I dentification Number: 33 Co., Malon, Dry Chemical, Foam Freightling mothods: This product is a Class IB flammable liquid. When involved in a fire, this product will ignife readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignifion 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. 6. ACCIDENTAL RELEASE MEASURES ⁶¹¹ Sprin: Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For small spills (e.g., 1 gallon), wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventillation (open doors and windows) and secure all sources of ignifion. Remove spilled material with absorbent material and place into appropriate containers (b) rol spose. I proper ly in accordance with local, state and federal regulations. Wesh all diffected areas and outside of container with plenty of warm water and soap. Remove any containnated (e.g., sand or earth). Use ONLY non-sporking loois for recovery and cleanup. Transfer liquid to containers for recovery or disposal and solid diffing material (b) approximation and wash thoroughly before reuse containners to proper disposal. Remove containningted clothing and wash difficted areas and outside of container with plenty of warm water and soap. Remove any containnest for tecovery or disposal and solid diffing material (b.g., sand or earth). Use ONLY non-sporking loois for recovery and					
WARNING: Flammable! Keep away from heat, lit cigarettes, sparks & open flame. Keep container closed. Sumptifying Methods: Hazard Identification Number: 33 Co., Halon, Dry Chemical, Foam Frequence Tode: 3'TF Hazard Identification Number: 33 Co., Halon, Dry Chemical, Foam Frequence Code: 3'TE Hazard Identification Number: 33 Go., Halon, Dry Chemical, Foam Frequence Code: 3'TE Hazard Identification Number: 33 Go., Halon, Dry Chemical, Foam Solution and Blash 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 and decomposition at fire gravity and structural firefighters must wear scBAs and full protective Equipment. For small splits (e.g., s1 gallon) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows) and secure al sources of ignition. Remove splited material with absorbent material and place into oppropriate closed container(s) for disposal. Dispose of property in accordance with local, state and federal regulations. Wash all affected areas and outside of cortecinery and cleanny to rank for and source. Nerve any contaminated clothing and wash thoroughly before results of recovery and cleanny. Transfer liquid to containers for recovery and cleanny and exerce of municipal sewers and open bodies of water. For splits 21 gallon, deny entry to all unprotected individuals. Dike and contain split with intert material (e.g., sand or earth). Use ONLY for spits and cleaning runoffs out of municipal sewers and open bodies of water. For splits 21 gallon, deny entry to all unprotected individuals. Dike and contain split with intert material (e.g., sand or earth). Use ONLY for spits and cleaning runoffs out of municipal sewers and open bodies of water.<					
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Har2Chem Code: 3YE Hazard Identification Number: 33 CO, Halon, Dy Chemical, Foam 5.4 Theighting Procedures: This product is a Class IB flammable liquid. When Involved In a fire, this product will ighte readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ightion 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. 6.1 Split: Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For small spills (e.g., <1 gallon) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize vertilicition (open dosi and windws) and secure all sources of ignition. Remove spilled material with absorbent material and place in the appropriate personal protective equipment (e.g., goggles, gloves). Maximize vertilicition (open dosis of container with plenty of warm water and soap. Remove any containneted clothing and wash thoroughly before reuse. For spills ≥ 1 gallon, deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Use ONLY non-spirking fools for recovery and cleanup. Transfer liquid to containers for recovery or disposal and solid diffing meterial to separate containers for proper disposal. Remove containnated clothing promptly and wash affected skin areas with soap and water. V HANDLING & STORAGE INFOR					
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 6.1 Splis: Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For small splifs (e.g., <1 gallon) 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 property 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, 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 severs and open bodies of water. 7.1 Work & Hyglene Practices: Avoid prolonged contact with the product. Avoid breathing vapors of this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). 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). 7.3 Specidal Precoultions: Open containeres slowly on a			_		
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MSDS Revision Date: 11/01/2006

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

		6. EXPOSIBLE CONTROLS & FERSONAL PROTECTION	
8.1	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.		
8.2	Respiratory Protection:		
	protection authorized per	otection is required under typical circumstances of use or handling. If necessary, use only respiratory r U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate provinces, E.C. member states, or Australia.	
8.3	Eye Protection:		
		this product, splash or safety glasses may be worn. If necessary, refer to U.S. OSHA 29 CFR §1910.133, e European Standard EN166.	
8.4	Hand Protection:		
		ged & repeated skin contact will occur during use of this product, wear latex or rubber gloves for routine /, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the E.C. member states.	
8.5	Body Protection:		
	No special body protection of Canada, the E.C. memb	on is required under typical circumstances of use and handling. If necessary, refer to appropriate standards per states, or U.S. OSHA.	
		9. PHYSICAL & CHEMICAL PROPERTIES	
9.1	Density:	0.9998 - 1.0008	
9.2	Boiling Point:	171 - 660°F	
9.3	Melting Point:		
7.3 7.4		NE	
	Evaporation Rate:	<u>NA</u>	
9.5	Vapor Pressure:	NA	
9.6	Molecular Weight:	NE	
9.7	Appearance & Color:	Viscous liquid, ester (fruity) odor	
9.8	Odor Threshold:	ND	
9.9	Solubility:		
9.10	рH	NA	
9.11	Viscosity:	> 1200 cPs	
9.12	Other Information:	NA	
	······	10. STABILITY & REACTIVITY	
10.1	Stability:		
		ditions when stored properly (see Section 7, Storage and Handling).	
10.2	Hozardous Decomposition Product		
	gases (e.g., CO, CO ₂).	igh temperatures, the products of thermal decomposition may include irritating vapors and carbon oxide	
10.3	Hazardous Polymerization:		
		extremely high temperatures.	
10.4	Conditions to Avoid:		
	strong bases (e.g., lye, po	ele with strong oxidizers (e.g., peroxides, superoxides), strong acids (e.g., hydrochloric or muriatic acids), o hassium hydroxide).	
10.5	Incompatible Substances:		
	None known.		

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	11. TOXICOLOGICAL INFORMATION
11.1	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.
11.2	Acute Toxicity: See Section 2.5
11.3	Chronic Toxicity:
	See Section 2.6
11.4	Suspected Carcinogen:
	This product contains Formaldehyde which is listed as an OSHA carcinogen, Group 1 carcinogen (IARC) and a Group 2 carcinogen (NTP). This product contains Formaldehyde, a substance known to the State of California to cause cancer (California Proposition 65). This product also contains Toluene which is not carcinogenic to humans but is listed as a Group 3 carcinogen by the IARC.
11.5	Reproductive Toxicity:
	This product contains Toluene and Dibutyl Phthalate, substances known to the State of California to cause reproductive harm (California Proposition 65).
	Mutagenicity:
	This product is not reported to produce mutagenic effects in humans.
	Embryotoxicity:
	This product is not reported to produce embryotoxic effects in humans.
	This product is not reported to cause teratogenic effects in humans.
	Reproductive Toxicity:
	This product is not reported to cause reproductive effects in humans.
11.6	Irritancy of Product:
	See Section 2.3
11.7	Biological Exposure Indices:
11.8	Physician Recommendations:
	Treat symptomatically.
	· · · · · · · · · · · · · · · · · · ·
	12. ECOLOGICAL INFORMATION
12.1	Environmental Stability: The components of this product will slowly degrade over time into a variety of organic compounds. Specific environmental data available for the components of this product are as follows:
	<u>Ethyl Acetate</u> : 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.
	<u>Butyl Acetate</u> : K _{oc} = 1.82. Water solubility: 120 parts H ₂ O at 25°C (77°F). 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.
12.2	Effects on Plants & Animats: There are no specific data available for this product.
12.3	
<u> </u>	
	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 WASTE NUMBER: D001 (characteristic - ignitable)

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Prep	pared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Star	ndards MSDS Revision: 1,1 MSDS Revis	sion Date: 11/01/2006	
	14. TRANSPOR	TATION INFORMATION		
	basic description (proper shipping name, hazard class & divi ditional descriptive information may be required by 49 CFR, IA		ch mode of transportation.	
14.1	49 CFR (GND): CONSUMER COMMODITY, ORM-D (≤ 1.0 L) UN1263, PAINT, 3, II (> 1.0 L)			
14.2	IATA (AIR): CONSUMER COMMODITY, 9, ID8000 (≤ 0.5 L) UN1263, PAINT, 3, II (> 0.5 L)			
14.3	IMDG (OCN): UN1263, PAINT, 3, II, LTD QTY (≤ 1.0 L) UN1263, PAINT, 3, II (> 1.0 L)		ORM-D	
14.4	TDGR (Canadian GND): MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" o UN1263, PAINT, 3, II (> 1.0 L)	or "LTD QTY" or "QUANT LTÉE" (≤ 1.0 L)		
14.5	ADR/RID (EU): UN1263, PAINT, 3, II, ADR, LTD QTY (≤ 1.0 L)			
14.6	MEXICO (SCT): UN1263, PINTURA, 3, II, CANTIDAD LIMITADA (≤ 1.0 L)			
	15. REGULA			
15.1	SARA Reporting Requirements:			
	SARA 304 (40 CFR Table 302.4) – Butyl Acetate, Ethyl Acetat			
15.2	SARA Threshold Planning Quantity:	components of this product		
15.3	There are no specific Threshold Planning Quantities for the output TSCA Inventory Status:	components of this product.	· · · · · · · · · · · · · · · · · · ·	
10.0	The components of this product are listed on the TSCA Inventory.			
15.4	CERCLA Reportable Quantity (RQ):			
	Butyl Acetate: 5000 lbs.; Ethyl Acetate: 5000 lbs.; Toluene: 1	000 lbs.; Dibutyl Phthalate: 10 lbs.		
15.5	Other Federal Requirements:			
	This product complies with the appropriate sections of the F	Food and Drug Administration's 21 CFR subchapte	r G (Cosme <u>tics).</u>	
15.6	Other Canadian Regulations: This product has been classified according to the hazard c the information required by the CPR. The components of th of the components of this product are listed on the Priorities	his product are listed on the DSL/NDSL. None		
15.7	State Regulatory information: Ingredients in this mixture on found on the following state c			
	California OSHA Hazardous Substances List California Proposition 65 (Reproductive Harm) California Proposition 65 (Cancer)	Butyl Acetate, Toluene, Ethyl Acetate, Dibu Toluene, Dibutyl Phthalate Formaldhyde	tyl Phthalate	
1	Delaware Air Quality Management List	Butyl Acetate, Toluene, Ethyl Acetate, Nitro	cellulose, Dibutyl	
	Massachusetts Hazardous Substances List	Phthalate Butyl Acetate, Toluene, Ethyl Acetate, nitro Phthalate	cellulose, Dibutyl	
	Michigan Critical Substances List	Tolvene, Dibutyl Phthalate		
	Minnesota Hazardous Substances List	Butyl Acetate, Toluene, Ethyl Acetate, Dibu	tyl Phthalate	
	New Jersey Right to Know Hazardous Substances List	Toluene, Nitrocellulose, Dibutyl Phthalate		
	New York List of Hazardous Substances Pennsylvania Hazardous Substances List	Butyl Acetate, Toluene, Ethyl Acetate, Dibu Butyl Acetate, Toluene, Ethyl Acetate, Nitro Phthalate		
	Rhode island Toxic Air Contaminants List	Toluene		
	Washington Permissible Exposure Limits for Air Contaminant Wisconsin Hazardous Substances List	ts Butyl Acetate, Toluene, Ethyl Acetate, Dibu Toluene, Ethyl Acetate, Dibutyl Phthalate	tyl Phthalate	

C)·P·I	MAT	ERIAL SAFE	TY DATA SI	HEET	Page 7 of 8 MSDS-066
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		15 DE				
15.8	67/548/EEC (European		GULATORT INFOR	WATION - COninc		
13.0			not listed in Anney Lof Ell	Directive 47/548/FFC		
	The primary component of this product is not listed in Annex I of EU Directive 67/548/EEC: <u>Ethyl Acetate</u> : Flammable (F). R: 11-36/37/38 – Highly flammable. Irritating to eyes, respiratory system and skin. 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.					
			able. S: 9-16-33 - Keep - No smoking. Take pre			
		· · · · · · · · · · · · · · · · · · ·	16. OTHER INFO			<u></u>
16.2	EXTREMELY FLAMMABLE! Keep away from heat or flame. Use only as directed. Avoid eye contact. If contact occurs, flush eye thoroughly with running water. Use only in a well-ventilated area. If redness or other signs of adverse reaction occur, discontinue use immediately. Keep container closed. Store in a cool place. KEEP OUT OF REACH OF CHILDREN.					
	See last page of t	his MSDS.				· · · · · · · · · · · · · · · · · · ·
16.3	government regu- information contr guaranteed and to the specific pr may be changed	lations must be reviewe ained herein is reliable no warranties of any ty oduct(s). If this produc	ered pursuant to OSHA's ad for applicability to this p and accurate as of thi pe, either expressed or im ct(s) is combined with othe sure to consult the latest en	product. To the best of Sh s date; however, accur plied, are provided. The er materials, all compone	ipMate's & OPI Proc acy, suitability or c information contair	ducts' knowledge, the completeness are not ned herein relates only
16.4	Prepared for: OPI Products, Inc. 13034 Saticoy Stre No. Hollywood, C +1 (818) 759-2400 +1 (818) 759-5770 http://www.opi.co	eet A 91605 USA phone fax	0·P·I			
16.5	Prepared by: ShipMate, Inc. 18436 Hawthorne Torrance, CA 905 +1 (310) 360-3700 +1 (310) 360-5700 http://www.shipm	phone fax				

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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 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:

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

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

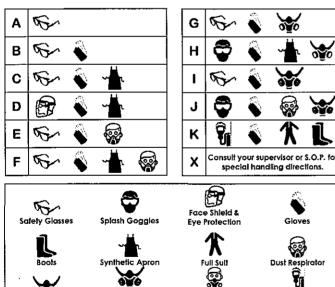
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



3

PERSONAL PROTECTION RATINGS:



Dust & Vapor

Respirator

91 ×76 Full Face Airline Hood/Mask Respirator or SCBA 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:

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Vapor Respirator

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

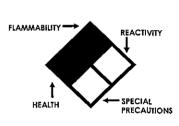
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

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
-₩-	Use No Water
OX	Oxidizer



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			
TDio	Lowest dose to cause a symptom			
TCLo	Lowest concentration to cause a symptom			
TDio, LDio, & LDo Or	Lowest dose (or concentration) to cause lethal or			
TC, TCo, LCio, & LCo	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				
EU	European Union (European Union Directive 67/548/EEC)				

EC INFORMATION:

_ c	Ε	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Тохіс	Initant	Harmful