


## 1. PRODUCT & COMPANY IDENTIFICATION

1.1	Product Name:	<b>OPI RAPIDRY SPRAY NAIL POLISH DRYER</b>
1.2	Chemical Name:	Disiloxane Mixture
1.3	Synonyms:	NA
1.4	Trade Names:	AL 702, AL 703, AL 704, AL 706, AL 707, AL 709
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:	<b>CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 16377)</b>
1.9	Business Phone / Fax:	+1 (818) 759-2400 / +1 (818) 759-5776

## 2. HAZARDS IDENTIFICATION

2.1	Hazard Identification:	<p>This product is classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS according to the classification criteria of NOHSC:1088 (2004) and ADG Code (Australia). <b>DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. CAUSES SKIN IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.</b></p> <p><u>Classification:</u> Flam. Liq. 2; Acute Tox. 4; Skin Irrit. 2A; STOT SE 3; Aquatic Chronic 2</p> <p><u>Hazard Statements (H):</u> H225 – Highly flammable liquid and vapor. H304 – May be fatal if swallowed and enters airways. H315 – Causes skin irritation. H336 – May cause drowsiness or dizziness. H411 – Toxic to aquatic life with long lasting effects.</p> <p><u>Precautionary Statements (P):</u> 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 vapors. P264 – Wash thoroughly after handling. P280 – Wear eye protection. P271 – Use only outdoors or in a well-ventilated area. P273 – Avoid release to the environment. P301 – IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331 – Do NOT induce vomiting. P302+P352 – IF ON SKIN: Wash with plenty of water. P312 – Specific treatment See Section 4 First Aid, of this SDS. P332+P313 – If skin irritation occurs: Get medical advice/attention. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P370+P378 – In case of fire: Use CO<sub>2</sub>, Halon (if permitted), Dry Chemical, Foam, as authorized to extinguish. P391 – Collect spillage. P403+P235 – Store in a well-ventilated place. Keep cool. P405 – Store locked up. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).</p>	
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## 3. COMPOSITION & INGREDIENT INFORMATION


CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m <sup>3</sup> )									OTHER
					ACGIH		NOHSC			OSHA				
					TLV	STEL	ppm	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
DISILOXANE	107-46-0	JM9237000	203-492-7	30-60	(0.3)	NA	NF	NF	NF	NF	(0.3)	NA	NA	
	Flam.Liq. 2, Aquatic Acute 1, Aquatic Chronic 1; H225, H400, H410													
C7-8 ISOPARAFFIN	70024-92-9	NA	274-273-1	30-60	NA	NA	NF	NF	NF	NA	NA	NA		
	Flam. Liq. 2, Asp. Tox. 1, Skin Irrit. 2, STOT SE 3, Aquatic Chronic 2; H225, H304, H315, H336, H411													
ETHYLHEXYL PALMITATE	29806-73-3	RT4740000	249-862-1	1-5	NA	NA	NF	NF	NF	NA	NA	NA		
FRAGRANCE (PARFUM)	NA	NA	NA	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA		
BENZYL BENZOATE	120-51-4	DG420000	204-402-9	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN	
BENZYL SALICYLATE	118-58-1	VO1750000	204-262-9	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN	
	Skin Sens. 1; Aquatic Chronic 2; H303, H317, H319, H371, H401													
BUTYLPHENYL METHYLPROPIONAL	80-54-6	MW4895000	201-289-8	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN	
	Acute Tox. Oral 4; Skin Irrit. 2; Aquatic acute 2; Aquatic Chronic 2; H302, H315, H319													
CITRONELLOL	106-22-9	UT2975000	203-375-0	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN	
	Skin. Irrit. 2; Skin Sens. 1B; Eye Irrit. 2, H315, H317, H319													
GERANIOL	106-24-1	RG5830000	203-377-1	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN	
HEXYL CINNAMAL	101-86-0	GD6560000	202-983-3	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN	
	Skin Sens. 1B; Aquatic Chronic 2; H317, H411													
HYDROXYISOHEXYL 3-CYCLO-HEXENE CARBOXALDEHYDE	31906-04-4	NA	250-863-4	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN	
LINALOOL	78-70-6	RG5775000	201-134-4	< 0.1	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN	
	Flam. Liq. 4; Acute Tox. Oral 5; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H227, H303, H315, H319, H335													

## 4. FIRST AID MEASURES

4.1	First Aid:	<p><b>Ingestion:</b> If ingested, do not induce vomiting. Drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer plenty of 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 and amount of the substance that was swallowed.</p> <p><b>Eyes:</b> If product is 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, consult a physician.</p> <p><b>Skin:</b> If redness, dryness or other signs of irritation to the skin develop, wash affected skin areas with plenty of warm water and soap. If irritation persists, consult a physician.</p> <p><b>Inhalation:</b> Remove victim to fresh air at once.</p>
4.2	Effects of Exposure:	<p><b>Ingestion:</b> If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression.</p> <p><b>Eyes:</b> Irritating to eyes. Symptoms of overexposure may include redness, itching, irritation and watering.</p> <p><b>Skin:</b> May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact.</p> <p><b>Inhalation:</b> 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 3 (Composition and Ingredient Information) can cause central nervous system depression (e.g., drowsiness, dizziness, headaches, nausea).</p>
4.3	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.
4.4	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.
4.5	Chronic Health Effects:	No chronic health effects are known, although symptoms and discomfort may occur for several days following overexposure.
4.6	Target Organs:	Eyes, Skin, Respiratory System.
4.7	Medical Conditions Aggravated by Exposure:	None known.

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>PHYSICAL HAZARDS</b>	<b>0</b>
<b>PROTECTIVE EQUIPMENT</b>	<b>B</b>
<b>EYES</b>	<b>SKIN</b>

## 5. FIREFIGHTING MEASURES

5.1	Fire & Explosion Hazards:	<b>DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR!</b> Keep away from heat, lit cigarettes, sparks & open flame. Keep container closed.	
5.2	Extinguishing Methods:	CO <sub>2</sub> , Halon (if permitted), Dry Chemical, Foam, as authorized.	
5.3	Firefighting Procedures:	<p>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.</p> <p>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.</p> <p><b>HazChem Code:</b> 3(Y)E</p> <p><b>Hazard Identification Number:</b> 33</p>	

## 6. ACCIDENTAL RELEASE MEASURES

6.1	Spills:	<p>Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment.</p> <p>For <u>small spills</u> (e.g., &lt;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 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.</p> <p>For <u>large spills</u> ≥ 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 drains, municipal sewers and open bodies of water.</p>
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 &amp; 1272/2008/EC Standards



SDS Revision: 2.1

SDS Revision Date: 2/8/2016

## 7. HANDLING &amp; STORAGE INFORMATION

7.1	Work & Hygiene Practices:	Avoid prolonged contact with this material. Avoid breathing the vapors generated by this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). Wash exposed skin thoroughly with plenty of soap & water after using this product. If necessary, use a moisturizer after washing. Do not eat, drink, or smoke while handling this product.
7.2	Storage & Handling:	Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatible materials listed in Section 10. Do not store in damaged or unmarked containers or storage devices. Keep containers securely closed when not in use. Open slowly on a level, stable surface. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care. As a precaution against exposure to the eyes, nose, throat and face, this product should not be stored higher than waist level. Keep away from children at all times!
7.3	Special Precautions:	Store in original container. Do not store where temperatures can exceed 120 °F.

## 8. EXPOSURE CONTROLS &amp; PERSONAL PROTECTION

8.1	Exposure Limits: ppm (mg/m <sup>3</sup> )	ACGIH		NOHSC			OSHA			OTHER
		TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
	CHEMICAL NAME(S)									
	DISILOXANE	(0.3)	NA	NF	NF	NF	(0.3)	NA	NA	
	BENZYL BENZOATE	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
	BENZYL SALICYLATE	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
	BUTYLPHENYL METHYLPROPIONAL	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
	CITRONELLOL	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
	GERANIOL	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
	HEXYL CINNAMAL	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
	HYDROXYISOHEXYL 3-CYCLO-HEXENE CARBOXALDEHYDE	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
	LINALOOL	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
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:	Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this product. Always use protective eyewear when cleaning spills or leaks. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants.								
8.5	Hand Protection:	None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. When handling large quantities (e.g., ≥ 1 gallon), wear rubber or impervious plastic gloves.								
8.6	Body Protection:	No apron required when handling small quantities. When handling large quantities (e.g., ≥ 1 gallon), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.								

## 9. PHYSICAL &amp; CHEMICAL PROPERTIES

9.1	Appearance:	Clear liquid
9.2	Odor:	Characteristic odor
9.3	Odor Threshold:	NE
9.4	pH:	NA
9.5	Melting Point/Freezing Point:	ND
9.6	Initial Boiling Point/Boiling Range:	212 °F
9.7	Flashpoint:	-7 °C (19 °F)
9.8	Upper/Lower Flammability Limits:	1.5/11.6
9.9	Vapor Pressure:	ND
9.10	Vapor Density:	NA
9.11	Relative Density:	0.76
9.12	Solubility:	Immiscible with water
9.13	Partition Coefficient (log P <sub>ow</sub> ):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	< 500 cPs
9.17	Other Information:	Evaporation rate < 1.0 (n-BuAc = 1.0)

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

SDS Revision: 2.1

SDS Revision Date: 2/8/2016

**10. STABILITY & REACTIVITY**

10.1	Stability:	Relatively stable under ambient conditions when stored properly.
10.2	Hazardous Decomposition Products:	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).
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Exposure or contact to extreme temperatures, incompatible chemicals, strong light sources, sparks, flame.
10.5	Incompatible Substances:	Strong oxidizers, peroxides, acids, alkalis, combustible materials.

**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. This data has 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:	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 available, but are not presented in this SDS.
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. 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**

13.1	Waste Disposal:	Dispose in accordance with local, state and Federal hazardous waste laws.
13.2	Special Considerations:	U.S. EPA Characteristic Waste: D001 (ignitability)



**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.

14.1	49 CFR (GND):	CONSUMER COMMODITY, ORM-D UN1993, FLAMMABLE LIQUIDS, N.O.S., (HEXAMETHYLDISILOXANE, ISOPARAFFIN), 3, II LTD QTY (IP ≤ 1.0 L)	
14.2	IATA (AIR):	CONSUMER COMMODITY, 9, ID8000 (IP ≤ 0.5 L) UN1993, FLAMMABLE LIQUIDS, N.O.S., (HEXAMETHYLDISILOXANE, ISOPARAFFIN), 3, II (> 0.5 L)	
14.3	IMDG (OCN):	UN1993, FLAMMABLE LIQUIDS, N.O.S., (HEXAMETHYLDISILOXANE, ISOPARAFFIN), 3, II, LTD QTY (≤ 1.0 L) UN1993, FLAMMABLE LIQUIDS, N.O.S., (HEXAMETHYLDISILOXANE, ISOPARAFFIN), 3, II (> 1.0 L)	
14.4	TDGR (Canadian GND):	MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 1.0 L) UN1993, FLAMMABLE LIQUIDS, N.O.S., (HEXAMETHYLDISILOXANE, ISOPARAFFIN), 3, II (> 1.0 L)	
14.5	ADR/RID (EU):	UN1993, FLAMMABLE LIQUIDS, N.O.S., (HEXAMETHYLDISILOXANE, ISOPARAFFIN), 3, II, ADR, LTD QTY (≤ 1.0 L) UN1993, FLAMMABLE LIQUIDS, N.O.S., (HEXAMETHYLDISILOXANE, ISOPARAFFIN), 3, II, ADR (> 1.0 L)	
14.6	SCT (MEXICO):	UN1993, LIQUIDOS INFLAMABLES, N.E.P., (HEXAMETILDISILOXANO, ISOPARAFINA), 3, II CANTIDAD LIMITADA (≤ 1.0 L)	
14.7	ADGR (AUS):	UN1993, FLAMMABLE LIQUIDS, N.O.S., (HEXAMETHYLDISILOXANE, ISOPARAFFIN), 3, II (> 1.0 L)	

\*This product may also be shipped as an Excepted Quantity (Inner Package Volume ≤ 30 mL, Total Quantity ≤ 500 mL per Outer Package)

## 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 or are otherwise exempt.
15.4	CERCLA Reportable Quantity (RQ):	NA
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 SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDL. None of the components of this product are listed on the Priorities Substances List. Class B2 Flammable Liquid. D2B Other toxic effects. 
15.7	State Regulatory Information:	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).
15.8	Other Requirements:	The primary components of this product are listed in Annex I of EU Directive 67/548/EEC: <u>Hexamethyldisiloxane</u> : Flammable (F). <u>Risk Phrases</u> (R): 11 – Highly flammable. <u>Safety Phrases</u> (S): 16 - Keep away from sources of ignition - No smoking. <u>C7-8 Isoparaffin</u> : Flammable (F); Environmental Danger (N). <u>Risk Phrases</u> (R): 11-20-38-51/53-65-66-67 – Highly flammable. Harmful by inhalation. Irritation to skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness or dizziness. <u>Safety Phrases</u> (S): 1/2-7-25-45-16 – Keep locked up and out of reach of children. Avoid contact with eyes. In case of accident or if you feel unwell seek medical advice immediately (show label where possible). Keep container tightly closed. Keep away from sources of ignition - No smoking. 

## 16. OTHER INFORMATION

16.1	Other Information:	<b>DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. CAUSES SKIN IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.</b> Do not take internally. Store in a cool, dry place. Use only as directed. Discontinue use immediately if irritation develops. Keep tightly closed. Store locked up. Keep away from sources of ignition – No smoking. <b>KEEP OUT OF REACH OF CHILDREN.</b>
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:	<b>OPI Products, Inc.</b> 13034 Saticoy Street No. Hollywood, CA 91605 USA Tel: +1 (818) 759-2400 Fax: +1 (818) 759-5776 <a href="http://www.opi.com">http://www.opi.com</a>
16.5	Prepared by:	<b>ShipMate, Inc.</b> P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 <a href="http://www.shipmate.com">http://www.shipmate.com</a>

O·P·I



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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
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### 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 compressions and breathing to circulate blood and provide oxygen to the body.
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### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

### HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

HEALTH
FLAMMABILITY
PHYSICAL HAZARDS
PERSONAL PROTECTION

### PERSONAL PROTECTION RATINGS:

<b>A</b>		<b>G</b>	
<b>B</b>		<b>H</b>	
<b>C</b>		<b>I</b>	
<b>D</b>		<b>J</b>	
<b>E</b>		<b>K</b>	
<b>F</b>		<b>X</b>	Consult your supervisor or SOPs for special handling directions.

Safety Glasses	Splash Goggles	Face Shield & Protective Eyewear	Gloves
Boots	Synthetic Apron	Protective Clothing & Full Suit	Dust Respirator
Full Face Respirator	Dust & Vapor Half-Mask Respirator	Full Face Respirator	Airline Hood/Mask or SCBA

### OTHER STANDARD ABBREVIATIONS:

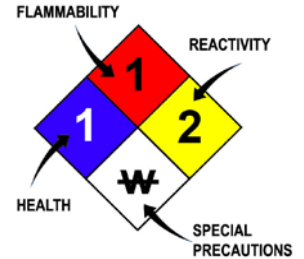
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus
Flam.	Flammable
Liq.	Liquid
Sol.	Solid
Tox.	Toxicity
Irrit.	Irritation
Sens.	Sensitization
Ox.	Oxidizing
Corr.	Corrosion
Repr.	Reproductive (Harm)
Asp.	Aspiration
Inh.	Inhalation
Dam.	Damage
STOT SE	Specific Target Organ Toxicity – Single Exposure
STOT RE	Specific Target Organ Toxicity – Repeated Exposure

### 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
W	Use No Water
OX	Oxidizer
TREFOIL	Radioactive



### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
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>10</sub>	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD <sub>10</sub> , LD <sub>10</sub> , & LD <sub>01</sub> or TC, TC <sub>01</sub> , LC <sub>10</sub> , & LC <sub>01</sub>	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL <sub>m</sub>	Median threshold limit
log K <sub>ow</sub> or log K <sub>oc</sub>	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)
WGK	Wassergefährdungsklassen (German Water Hazard Class)

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

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:

C	E	F	N	O	T	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

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