

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


MSDS Revision: 3.0

MSDS Revision Date: 02/01/2012

1. PRODUCT IDENTIFICATION

1.1	Product Name: AXXIUM SOAK-OFF GEL LACQUER SYSTEM (ALL SHADES)
1.2	Chemical Name: METHACRYLATE MIXTURE
1.3	Synonyms: NA
1.4	Trade Names: AX4 ** (Various Colors)
1.5	Product Use: PROFESSIONAL USE ONLY
1.6	Manufacturer'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: This product is classified as a HAZARDOUS SUBSTANCE but NOT as DANGEROUS GOODS according to the classification criteria of NOHSC:1088 (2004) and ADG Code (Australia). WARNING. AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. Hazard Statements (H): H317 – may cause an allergic skin reaction. H320 – Causes eye irritation. Precautionary Statements (P): P261 – Avoid breathing dust/fume/gas/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/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 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. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDf).			
2.2	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: YES		
2.3	Effects of Exposure: INGESTION: If product is swallowed, may cause nausea, headache, 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: Inhalation of vapors is unlikely under normal conditions of use and handling; however, inhalation of vapors in excess of 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 some sensitive 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.			
2.6	Chronic Health Effects: None known.			
2.7	Target Organs: Eyes, skin.			

NA = Not Available; ND = Not Determined; NE = Not Established; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used

NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2010 format.

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3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR								OTHER
					ACGIH		NOHSC			OSHA			
					ppm (mg/m ³)		ppm (mg/m ³)			ppm (mg/m ³)			
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
POLYURETHANE METHACRYLATE OGLIMER	NA	NA	NA	≤ 30.0	NA	NA	NF	NF	NF	NA	NA	NA	
POLYURETHANE ACRYLATE OLIGOMERS	NA	NA	NA	≤ 30.0	NA	NA	NF	NF	NF	NA	NA	NA	
HEMA	868-77-9	OZ4725000	212-782-2	≤ 15.0	NA	NA	NF	NF	NF	NA	NA	NA	
ISOBORNYL ACRYLATE	5888-33-5	UD3940000	227-561-6	≤ 15.0	NA	NA	NF	NF	NF	NA	NA	NA	
HYDROXYCYCLOHEXYL PHENYL KETONE	947-19-3	NA	213-426-9	< 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
BENZOYL ISOPROPANOL	7473-98-5	UC2977245	NA	< 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
DIMETHICONE	9006-65-9	NA	NA	< 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
ISOBORNYL METHACRYLATE	7534-94-3	NA	231-403-1	< 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
MAY ALSO CONTAIN (COLORANTS, SHIMMERS, & COLOR COMPONENTS)													
SYNTHETIC WAX	8002-74-2	RV0350000	232-315-6	NA	NA	NA	NF	NF	NF	NA	NA	NA	
ETHYLHEXYL METHOXYCINNAMATE	5466-77-3	NA	226-775-7	NA	NA	NA	NF	NF	NF	NA	NA	NA	
ISOPROPYL TITANIUM TRIISOSTEARATE	61417-49-0	NA	262-774-8	NA	NA	NA	NF	NF	NF	NA	NA	NA	
SILICA	112945-52-5	VV7310000	231-545-4	NA	(6)	NA	NF	NF	NF	(6)	NA	NA	DUST
CALCIUM ALUMINUM BOROSILICATE	65997-17-3	LK3651000	266-046-0	NA	15	NA	NF	NF	NF	10	NA	NA	DUST
CI 77891 (TITANIUM DIOXIDE)	13463-67-7	XR2275000	236-675-5	NA	NA	NA	NF	NF	NF	NA	NA	NA	
TIN OXIDE	18282-10-5	XQ400000	242-159-0	NA	NA	NA	NF	NF	NF	NA	NA	NA	
ALUMINA	1344-28-1	BD1200000	215-691-9	NA	10	NA	NF	NF	NF	15	NA	NA	DUST
TRIETHOXYCAPRYLSILANE	2943-75-1	VV6695500	220-941-2	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77163 (BISMUTH OXYCHLORIDE)	7787-59-9	EB2700000	223-122-7	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77120 (BARIUM SULFATE)	7727-43-7	CR0600000	231-784-4	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 42090 (BLUE 1)	3844-45-9	BQ4725000	223-339-8	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77007 (ULTRAMARINES)	1302-83-6	NA	215-111-1	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 75470 (CARMINE)	1390-65-4	FH8891000	215-724-4	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77510 (FERRIC FERROCYANIDE)	14038-43-8	LJ8200000	237-875-5	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 15850 (RED 7)	5281-04-9	QJ1975000	226-109-5	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 15850 (RED 6)	5858-81-1	QJ1975000	227-497-9	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 45380 (RED 21)	15086-94-9	LM5800000	239-138-3	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 45380 (RED 22)	17372-87-1	LM5800000	241-409-6	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 45410 (RED 28)	13473-26-2	NA	236-747-6	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 73360 (RED 30)	2379-74-0	NA	219-163-6	NA	NA	NA	NF	NF	NF	NA	NA	NA	
MICA	12001-26-2	VV8760000	310-127-6	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77491 (RED IRON OXIDES)	1309-37-1	NO740000	215-168-2	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77492 (YELLOW IRON OXIDES)	1345-27-3	NA	215-570-8	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77499 (BLACK IRON OXIDES)	1317-61-9	NA	215-277-5	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 19140 (YELLOW 5)	1934-21-0	UQ640000	217-699-5	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77742 (MANGANESE VIOLET)	10101-66-3	NA	233-257-4	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 60725 (VIOLET 2)	81-48-1	CB770000	201-353-5	NA	NA	NA	NF	NF	NF	NA	NA	NA	
ETHYLENE / VA COPOLYMER	24937-78-8	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
POLYBUTYLENE TEREPHTHALATE	26062-94-2	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
ACRYLATES COPOLYMER	25133-97-5	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
POLYESTER-3	NA	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
ETHYLHEXYL HYDROXYSTEARATE	29710-25-6	NA	249-793-7	NA	NA	NA	NF	NF	NF	NA	NA	NA	

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3. COMPOSITION & INGREDIENT INFORMATION – cont'd

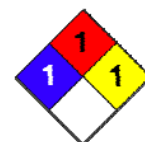
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR								OTHER
					ACGIH		NOHSC			OSHA			
					ppm (mg/m ³)		ppm (mg/m ³)			ppm (mg/m ³)			
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
MAY ALSO CONTAIN (COLORANTS, SHIMMERS, & COLOR COMPONENTS) – CONT'D													
PEG-12 DIMETHICONE	68937-54-2	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
SORBITAN OLEATE	1338-43-8	NA	215-665-4	NA	NA	NA	NF	NF	NF	NA	NA	NA	
WATER (AQUA)	7732-18-5	ZC0110000	231-191-2	NA	NA	NA	NF	NF	NF	NA	NA	NA	
TALC	14807-96-6	WW2710000	238-877-9	NA	NA	NA	NF	NF	NF	NA	NA	NA	
POLYQUATERNIUM-37	26161-33-1	KQ630000	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CYCLOPENTASILOXANE	541-02-6	GY59452000	208-764-9	NA	NA	NA	NF	NF	NF	NA	NA	NA	
PROPYLENE GLYCOL DICAPRYLATE/DICAPRATE	68583-51-7	NA	217-516-3	NA	NA	NA	NF	NF	NF	NA	NA	NA	
PEG/PPG12/15 DIMETHICONE	NA	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
PPG-1 TRIDECETH-6	NA	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	

4. FIRST AID MEASURES

4.1	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. EYES: Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician. SKIN: If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the effected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately. INHALATION: Remove victim to fresh air.										
4.2	Medical Conditions Aggravated by Exposure: None known.										
<table border="1" style="width: 100%;"> <tr> <td style="background-color: #0000FF; color: white;">HEALTH</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #FF0000; color: white;">FLAMMABILITY</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #FFFF00; color: black;">REACTIVITY</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #000000; color: white;">PROTECTIVE EQUIPMENT</td> <td style="text-align: center;">B</td> </tr> <tr> <td>EYES</td> <td>SKIN</td> </tr> </table>		HEALTH	1	FLAMMABILITY	1	REACTIVITY	1	PROTECTIVE EQUIPMENT	B	EYES	SKIN
HEALTH	1										
FLAMMABILITY	1										
REACTIVITY	1										
PROTECTIVE EQUIPMENT	B										
EYES	SKIN										

5. FIREFIGHTING MEASURES

5.1	Flashpoint & Method: N/D
5.2	Autoignition Temperature: NA
5.3	Flammability Limits: Lower Explosive Limit (LEL): ND Upper Explosive Limit (UEL): ND
5.4	Fire & Explosion Hazards: Exothermic polymerization may cause containers to rupture. Cool containers with water to prevent polymerization.
5.5	Extinguishing Methods: CO₂, Halon, Dry Chemical, Foam
5.6	Firefighting Procedures: This product is a combustible liquid. When involved in a fire, this product may ignite readily and decompose to produce carbon oxides. 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.



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6. ACCIDENTAL RELEASE MEASURES

6.1	<p>Spills:</p> <p>Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment.</p> <p>For small spills (e.g., <1 gallon) wear appropriate personal protective equipment (e.g., goggles, gloves). 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 spills \geq 1 gallon, deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.</p>
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7. HANDLING & STORAGE INFORMATION

7.1	<p>Work & Hygiene Practices:</p> <p>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.</p>
7.2	<p>Storage & Handling:</p> <p>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.</p> <p>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.</p>
7.3	<p>Special Precautions:</p> <p>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.</p>

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	<p>Ventilation & Engineering Controls:</p> <p>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.</p>
8.2	<p>Respiratory Protection:</p> <p>No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia.</p>
8.3	<p>Eye Protection:</p> <p>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.</p>
8.4	<p>Hand Protection:</p> <p>AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. If anticipated that prolonged & repeated skin contact will occur during use of this product, wear neoprene or rubber gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada or the E.C. member states.</p>
8.5	<p>Body Protection:</p> <p>AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. 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.</p>

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9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	1.4900-1.5000
9.2	Boiling Point:	NA
9.3	Melting Point:	NE
9.4	Evaporation Rate:	NE
9.5	Vapor Pressure:	NE
9.6	Molecular Weight:	NE
9.7	Appearance & Color:	Viscous gel.
9.8	Odor Threshold:	Characteristic acrylates odor.
9.9	Solubility:	Immiscible.
9.10	pH	ND
9.11	Viscosity:	30,000 – 10,000 cPs
9.12	Other Information:	ND

10. STABILITY & REACTIVITY

10.1	Stability:	Stable under ambient conditions when stored properly (see Section 7, Storage and Handling).
10.2	Hazardous Decomposition Products:	If exposed to extremely high temperatures, the products of thermal decomposition may include irritating vapors and carbon oxide gases (e.g., CO, CO₂).
10.3	Hazardous Polymerization:	May occur, if exposed to extremely high temperatures.
10.4	Conditions to Avoid:	None known.
10.5	Incompatible Substances:	This product is incompatible with alkaline metals, strong oxidizers (e.g., peroxides, superoxides), strong acids (e.g., hydrochloric or muriatic acids), or strong bases (e.g., lye, potassium hydroxide).

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:	No
11.5	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.
11.6	Irritancy of Product:	See Section 2.3
11.7	Biological Exposure Indices:	NE
11.8	Physician Recommendations:	Treat symptomatically.

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12. ECOLOGICAL INFORMATION

12.1	Environmental Stability: There are no specific data available for this product.
12.2	Effects on Plants & Animals: There are no specific data available for this product.
12.3	Effects on Aquatic Life: There are no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed 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: NA

14. TRANSPORTATION INFORMATION

The basic description (proper shipping name, hazard class & division, ID Number, 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): 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	MEXICO (SCT): NOT REGULATED	
14.7	ADGR (AUS): NOT REGULATED	

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15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements: This material contains Alumina, which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.	
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 as appropriate.	
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 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.	
15.7	State Regulatory Information: CI 77510 can be found on the following state right to know lists: California, (listed as Iron salts (soluble)).	
15.8	67/548/EEC (European Union) Requirements: The primary component of this product is not listed in Annex I of EU Directive 67/548/EEC. WARNING. Hazard Statements (H): H317 – may cause an allergic skin reaction. H320 – Causes eye irritation. Precautionary Statements (P): P261 – Avoid breathing dust/fume/gas/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/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 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. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).	

16. OTHER INFORMATION

16.1	Other Information: Keep out of reach of children. Do not take internally. Keep away from heat and open flame.	
16.2	Terms & Definitions: Please see last page of this MSDS.	
16.3	Disclaimer: This Material 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 Products' knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are 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 +1 (818) 759-2400 phone +1 (818) 759-5770 fax http://www.opi.com/	
16.5	Prepared by: ShipMate, Inc. PO Box 787 Sisters, OR 97759-0787 USA Phone: +1 (310) 370-3600 Fax: +1 (310) 370-5700 e-mail: shipmate@shipmate.com	

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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 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:

A	
B	
C	
D	
E	
F	

G	
H	
I	
J	
K	
X	Consult your supervisor or SOPs for special handling directions.

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:

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

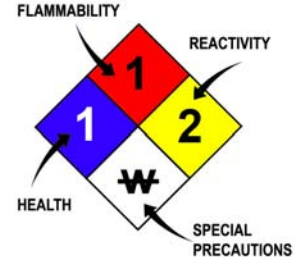
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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
W	Use No Water
OX	Oxidizer
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD₁₀	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD₁₀, LD₁₀, & LD₅₀ or TC, TC₁₀, LC₁₀, & LC₅₀	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
T_m	Median threshold limit
log K_{ow} or log K_{oc}	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:

A	B	C	D1	D2	D3	E	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