

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

SDS Revision: 1.1

SDS Revision Date: 4/12/2018

1. PRODUCT & COMPANY IDENTIFICATION

1.1	Product Name:	OPI ProSpa PROTECTIVE HAND SERUM
1.2	Chemical Name:	Botanical Mixture
1.3	Synonyms:	NA
1.4	Trade Names:	ASP20 / ASP21 / ASP22
1.5	Product Use:	Professional or Sundry Use Only
1.6	Distributor's Name:	OPI Products, Inc.
1.7	Distributor's Address:	4500 Park Granada Blvd, Calabasas, CA 91302 USA
1.8	Emergency Phone:	CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 16377)
1.9	Business Phone / Fax:	Tel: +1 (818) 999-5112

2. HAZARDS IDENTIFICATION

2.1	Hazard Identification:	This product is not classified as a hazardous substance or as dangerous goods according to the classification criteria of NOHSC: 1008 (2004) and ADG Code (Australia). WARNING! CAUSE MILD SKIN IRRITATION. CAUSES EYE IRRITATION. <u>Classification:</u> Skin Irrit. 3; Eye Irrit. 2B
2.2	Label Elements:	Hazard Statements (H): H316 – Causes mild skin irritation. H320 Causes eye irritation. Precautionary Statements (P): P264 – Wash thoroughly after handling. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 – If skin irritation or rash occurs: Get medical advice / attention.
2.3	Other Warnings:	KEEP OUT OF REACH OF CHILDREN.

3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)									OTHER
					ACGIH		NOHSC			OSHA				
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH		
WATER (AQUA/EAU)	7732-18-5	ZC0110000	231-191-2	50-100	NA	NA	NF	NF	NF	NA	NA	NA		
BUTYLENE GLYCOL	107-88-0	EK0440000	203-529-7	5.0-10	NA	NA	NF	NF	NF	NA	NA	NA		
DIMETHICONE	141-62-8	NA	205-491-7	5.0-10	NA	NA	NF	NF	NF	NA	NA	NA		
BIS-PEG-18 METHYL ETHER DIMETHYL SILANE	67846-47-3	NA	NA	1.0-5.0	NA	NA	NF	NF	NF	NA	NA	NA		
ALCOHOL	64-17-5	KQ6300000	200-578-6	1.0-5.0	1000	3000	1000	1880	NF	100	3000	3300		
CYCLOPENTASILOXANE	541-02-6	GY59452000	208-764-9	1.0-5.0	NA	NA	NF	NF	NF	NA	NA	NA		
PEG-400	2532-68-3	NA	NA	1.0-5.0	NA	NA	NF	NF	NF	NA	NA	NA		
POLYETHYLENE	9002-88-4	TQ3325000	NA	1.0-5.0	NA	NA	NF	NF	NF	NA	NA	NA		
GLYCERIN	56-81-5	MA8050000	200-289-5	1.0-5.0	10	NA	NF	NF	NF	15	NA	NA	RESP FRAC	
XANTHAN GUM	11138-66-2	NA	234-394-2	0.1-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
FRAGRANCE (PARFUM)	NA	NA	NA	0.1-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
PHENOXYETHANOL	122-99-6	NA	204-589-7	0.1-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
ASCORBYL GLUCOSIDE	129499-78-1	NA	NA	0.1-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
DIMETHICONOL	31692-79-2	NA	NA	0.1-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
HYDROXYETHYL ACRYLATE/SODIUM ACRYLOYDIMETHYL TAURATE COPOLYMER	111286-86-3	NA	NA	0.1-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
SQUALANE	111-01-3	XB6070000	203-825-6	0.1-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
1,2-HEXANEDIOL	6920-22-5	NA	230-029-6	0.1-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
CAPRYL GLYCOL	1117-86-8	NA	214-254-7	0.1-1.0	NA	NA	NF	NF	NF	NA	NA	NA		

3. COMPOSITION & INGREDIENT INFORMATION – cont'd

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)									OTHER
					ACGIH		NOHSC			OSHA				
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH		
LIMONENE	138-86-3	CS8100000	205-341-0	0.1-1.0	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN	
	Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1; Acute Aq. Tox. 1; Chronic Aq. Tox. 1; H226, H315, H317, H400, H410													
PEG-40 HYDROGENATED CASTOR OIL	61788-85-0	NA	NA	0.1-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
PTFE	9002-84-0	NA	NA	0.1-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
TOCOPHERYL ACETATE	7695-91-2	GA8747000	231-710-0	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
DISODIUM EDTA	139-33-3	AH4375000	205-358-3	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2 STOT SE 3; H302, H315, H319, H335													
LINALOOL	78-70-6	RG5775000	201-134-4	0.0-0.1	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													
CITRONELLOL	106-22-9	UT2975000	203-375-0	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN	
	Skin. Irrit. 2; Skin Sens. 1B; Eye Irrit. 2, H315, H317, H319													
POLYSORBATE 60	9005-67-8	NA	NA	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
SILICA DIMETHYL SILYLATE	68611-44-9	NA	271-893-4	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
SODIUM HYDROXIDE	1310-73-2	WB4900000	215-185-5	0.0-0.1	(2)	NA	(2)	NF	NF	(2)	NA	(10)	(2) NIOSH	
	Skin Corrosion 1A; Serious Eye Damage 1; H314													
CI 77891 (TITANIUM DIOXIDE)	13463-67-7	XR2275000	236-675-5	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
MICA	12001-26-2	VV8760000	310-127-6	0.0-0.1	3	NA	NF	2.5	NF	20	NA	1500	RESP FRAC	
GERANIOL	106-24-1	RG5830000	203-377-1	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN	
	Skin Irrit. 2; Skin Sens. 1; Eye Dam. 1; H315, H317, H318													
SORBITAN ISOTEARATE	71902-01-7	NA	NA	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
TOCOPHEROL	59-02-9	DJ2900000	200-412-2	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
ASCORBIC ACID	50-81-7	CI7650000	200-066-2	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
THEOBROMA GRANDIFLORUM SEED BUTTER	394236-97-6	NA	NA	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
SILICA	60676-86-0	VV7310000	262-373-8	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
	Eye Irrit. 2A; STOT SE 3; H319, H335													
BUTYL ALCOHOL	71-36-3	EO1400000	200-751-6	0.0-0.1	NA	50	50	152	50	100	NA	1400		
	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; H226, H302, H315, H318, H335, H336													
PERSEA GRATISSIMA (AVOCADO) OIL	8024-32-6	CL2680000	232-428-0	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
ETHYLHEXYL PALMITATE	29806-73-3	RT4740000	249-862-1	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
CITRAL	5392-40-5	NA	226-394-6	0.0-0.1	NE	NE	NF	NF	NF	NE	NE	NE	ALLERGEN	
	Skin Irrit. 2; Skin Sens. 1; H315, H317													
ASCORBYL PALMITATE	137-66-6	NA	205-305-4	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
BELLIS PERENNIS (DAISY) FLOWER EXTRACT	84776-11-4	NA	283-935-9	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
CAMELLIA SINESIS LEAF EXTRACT	84650-60-2	NA	283-935-9	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
SODIUM CARBONATE	497-19-8	NA	207-838-8	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
LECITHIN	8002-43-5	OG7565000	232-307-2	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
RETINYL PALMITATE	79-81-2	VH6860000	201-228-5	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
CITRIC ACID	77-92-9	GE7350000	201-069-1	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		

3. COMPOSITION & INGREDIENT INFORMATION – cont'd

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)									OTHER
					ACGIH		NOHSC			OSHA				
					ppm		ppm			ppm				
TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH							
CAPRYLIC/CAPRIC TRIGLYCERIDE	65381-09-1	NA	265-724-3	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
CARBOMER	9003-01-4	NA	NA	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
SODIUM LACTATE	72-17-3	NA	200-772-0	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
CI 19140 (YELLOW 5)	1934-21-0	UQ6400000	217-699-5	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
GLYCERYL STEARATE	11099-07-3	NA	234-325-6	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
POLYSORBATE 20	9005-64-5	TR7400000	500-018-3	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
OLEIC ACID	112-80-1	RG2275000	204-007-1	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
DENATONIUM BENZOATE	3734-33-6	NA	223-095-2	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
CI 42090 (BLUE 1)	3844-45-9	BQ4725000	223-339-8	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
PALMITOYL TRIPEPTIDE-1	147732-56-7	NA	NA	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		
PALMITOYL TETRAPEPTIDE-7	221227-05-0	NA	NA	0.0-0.1	NA	NA	NF	NF	NF	NA	NA	NA		

4. FIRST AID MEASURES

4.1	First Aid:	<p>Ingestion: 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>Eyes: 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>Skin: 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>Inhalation: Remove victim to fresh air at once.</p>										
4.2	Effects of Exposure:	<p>Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea.</p> <p>Eyes: Slightly irritating to the eyes.</p> <p>Skin: May be irritating to skin in some sensitive individuals, especially after prolonged contact.</p> <p>Inhalation: Inhalation is unlikely; however, vapors of this product may be slightly irritating to some sensitive individuals.</p>										
4.3	Symptoms of Overexposure:	Symptoms of overexposure may include redness, itching, and irritation.										
4.4	Acute Health Effects:	Redness, itching, and irritation of skin at the site of contact for some sensitive individuals.										
4.5	Chronic Health Effects:	No chronic health effects are known, although symptoms and discomfort may occur for several days following overexposure following ingestion. Components in the fragrance, contained in very small quantities in this product, may be mild allergens to some sensitive individuals.										
4.6	Target Organs:	Eyes, Skin										
4.7	Medical Conditions Aggravated by Exposure:	None known										
		<table border="1"> <tr> <td>HEALTH</td> <td>1</td> </tr> <tr> <td>FLAMMABILITY</td> <td>0</td> </tr> <tr> <td>PHYSICAL HAZARDS</td> <td>0</td> </tr> <tr> <td>PROTECTIVE EQUIPMENT</td> <td>A</td> </tr> <tr> <td>EYES</td> <td></td> </tr> </table>	HEALTH	1	FLAMMABILITY	0	PHYSICAL HAZARDS	0	PROTECTIVE EQUIPMENT	A	EYES	
HEALTH	1											
FLAMMABILITY	0											
PHYSICAL HAZARDS	0											
PROTECTIVE EQUIPMENT	A											
EYES												

5. FIREFIGHTING MEASURES

5.1	Fire & Explosion Hazards:	This product is non-flammable. When exposed to high temperatures, may produce hazardous decomposition products such as oxides of carbon (e.g., CO, CO ₂) and nitrogen (e.g., NO _x) and smoke.	
5.2	Extinguishing Methods:	Water, Foam, CO ₂ , Dry Chemical	
5.3	Firefighting Procedures:	First responders should wear eye protection. Structural fire fighters must wear full protective equipment and MSHA/NIOSH-approved self-contained breathing apparatus. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas. If necessary, rinse contaminated equipment with soapy water before returning to service.	

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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., < 1 gallon (3.8 L)) 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 <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), 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 drains, municipal sewers and open bodies of water.</p>
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7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices:	Avoid eye contact.
7.2	Storage & Handling:	Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Do not store in damaged or unmarked containers or storage devices. Keep containers securely closed when not in use.
7.3	Special Precautions:	Spilled material may present a slipping hazard if left unattended. Clean all spills promptly.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Exposure Limits: ppm (mg/m ³)		ACGIH		NOHSC			OSHA			OTHER
		CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
		ALCOHOL	1000	3000	1000	1880	NF	100	3000	3300	
		GLYCERIN	10	NA	NF	NF	NF	15	NA	NA	RESP FRAC
		SODIUM HYDROXIDE	(2)	NA	(2)	NF	NF	(2)	NA	(10)	(2) NIOSH
		MICA	3	NA	NF	2.5	NF	20	NA	1500	RESP FRAC
		BUTYL ALCOHOL	NA	50	50	152	50	100	NA	1400	
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:	None required if used in a well-ventilated area.									
8.4	Eye Protection:	Avoid eye contact. Protective eyewear (e.g., safety glasses with side-shield) is recommended at all times when handling this product. Always use protective eyewear when cleaning spills or leaks.									
8.5	Hand Protection:	None required under normal conditions of use.									
8.6	Body Protection:	None required under normal conditions of use.									

9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Appearance:	Light blue green liquid
9.2	Odor:	Mild odor
9.3	Odor Threshold:	NA
9.4	pH:	NA
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	NA
9.7	Flashpoint:	Non-flammable.
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	NA
9.11	Relative Density:	NA
9.12	Solubility:	Soluble in water.
9.13	Partition Coefficient (log P _{ow}):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	NA

10. STABILITY & REACTIVITY

10.1	Stability:	This product is stable.
10.2	Hazardous Decomposition Products:	Oxides of carbon and nitrogen.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Open flames, sparks, high heat and direct sunlight.
10.5	Incompatible Substances:	None known.

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11. TOXICOLOGICAL INFORMATION

11.1	Routes of Entry:	Inhalation: NO	Absorption: YES	Ingestion: YES
11.2	Toxicity Data:	The product has not been tested for specific toxicity data.		
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 produce 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 produce teratogenic effects in humans.		
	Reproductive Toxicity:	This product is not reported to produce 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:	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.

13. DISPOSAL CONSIDERATIONS

13.1	Waste Disposal:	Dispose of in accordance with Federal, state and local regulations.
13.2	Special Considerations:	NA

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/CAO, 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 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):	<u>Sodium Hydroxide</u> : 1,000 lbs (454 kg)
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/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 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:	This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information, go to www.P65warnings.ca.gov .



16. OTHER INFORMATION

16.1	Other Information:	<p>WARNING! HARMFUL IF SWALLOWED. CAUSE MILD SKIN IRRITATION. CAUSES EYE IRRITATION. Use only as directed. Discontinue use if irritation develops. Wash thoroughly after handling. Do not eat drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER/doctor, if you feel unwell. Rinse Mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice / attention.</p> <p>KEEP OUT OF REACH OF CHILDREN.</p>	
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	<p>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.</p>	
16.4	Prepared for:	<p>OPI Products, Inc. 4500 Park Granada Blvd Calabasas, CA 91302 USA Tel: +1 (818) 999-5112 http://www.opi.com</p>	
16.5	Prepared by:	<p>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</p>	

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
RTECS No.	Registry of Toxic Effects of Chemical Substances Number
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
IDLH	Immediately Dangerous to Life and Health
NOHSC	National Occupational Health and Safety Commission (Australia)
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

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

Safety Glasses	Splash Goggles	Face Shield & Protective Eyewear	Gloves
Boots	Protective 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:

Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

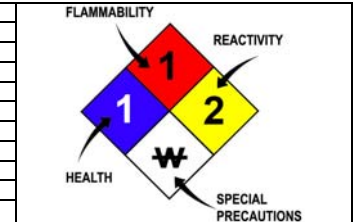
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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:

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
TD₀₁	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD₁₀₁, LD₁₀₁, & LD₀₁ or TC, TC₀₁, LC₁₀₁, & LC₀₁	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_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:

Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

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