

Page 1 of 6 **SDS-022**

Prepa	ared to OSHA, ACC, ANSI, No	OHSC, WHMIS, O	GHS & 1272/200	8/EC Standards			SDS	Revisio	า: 4.2		SDS	Revisio	n Date: 4	/12/2018
		1.	PRODUC	T & CON	IPANY	IDEI	NTIF		TIOI	N				
1.1	Product Name:	CLARITE	É BY OPI	POWDE	R – ALI	_ SH	ADE	ES						
1.2	Chemical Name:	Polyethylmeth	hacrylate Powo	der										
1.3	Synonyms:	NA												
1.4	Trade Names:	AO (xxx)												
1.5	Product Use:	Professional	Use Only											
1.6	Distributor's Name:	OPI Products	, Inc.											
1.7	Distributor's Address:	4500 Park Gr	anada Blvd, C	alabasas, CA	91302 US/	4								
1.8	Emergency Phone:	CHEMTRE	EC: +1 (703)) 527-3887	/ +1 (800) 424	-930	0 (CC	N 16	377)				
1.9	Business Phone / Fax:	Tel: +1 (818)	999-5112											
			2 H	AZARDS	IDENT	IFIC	ΔΤΙΟ	N						
2.1	Hazard Identification:	This product	is NOT classifi							ods a	ccordi	na the	classifi	cation criteria
			8 (2004) and th				0 00 0	anger	sus yu	ous a	Scorul	ig ne	01033111	
			s a fine powde		· /		I falling	a hazaı	d if sp	illed.				
			MAY CAUSE								EYE IR	RITAT	TION.	
		Classification	: Skin Sens. 1/	A; Eye Irrit. 2A										
2.2	Label Elements:	Hazard State	ments (H): H3	17 – May cau	se an aller	gic skir	n react	tion. H	 319 -	Cause	es seri	ous ey	/e	
		irritation.	()	,		0						,		^
		Precautionary	/ Statements (P): P280 - W	/ear protec	tive glo	oves/p	rotectiv	/e cloti	hing/ e	eye pro	otectio	n/	
		face protectio	n. P261 – Avo	oid breathing o	dusts. P27	′2 – Co	ontamii	nated v	vork cl	othing	shoul	d not k	e 🧹	
			f the workplac											· • /
			of soap and w											\mathbf{V}
			on. P363 – ainer through l								– Dis	pose	or	•
2.3	Other Warnings:		F REACH OF		neni, sioraș		ispusa	Tacilit	y (13D	лг).				
-	J	KEEP OUT C	F REACH OF	CHILDREN.										
		3. CO	OMPOSIT	ION & IN	GREDI	ENT	INF	ORM	ΙΑΤΙ	ON				
									EXPO	SURE L	IMITS IN	I AIR (m	g/m³)	
							GIH		NOHSC			OSHA		
						pp	om		ppm	=0		ppm		
немі	CAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
	ETHYL METHACRYLATE	9003-42-3	NA	NA	40-70	NA	NA	NF	NF	NF	NA	NA	NA	
						1	1			1		1	<u>г г</u>	
OLYI	METHYL METHACRYLATE	9011-14-7	TR0400000	NA	40-70	(10)	NA	NF	NF	NF	(10)	NA	NA	
-	-		D. 40575000	000 007 0	1	(=)		(=)			(=)		1.500	
ENZ	OYL PEROXIDE	94-36-0	DM8575000	202-327-6	1-5	(5)	NE	(5)	NF	NF	(5)	NA	1500	
	LSO CONTAIN:	Org. Perox. B	; Skin Sens. 1; E	ye Irrit.2, H241,	H317, H319									
		13463-67-7	XR2275000	236-675-5	0.5-1.5	(15)	NA	NF	NF	NF	(15)	NA	NA	
	91 (TITANIUM DIOXIDE)	13403-07-7	7172275000	230-073-3	0.5-1.5	(15)	INA	INF	INF	INF	(15)	NA	N/A	
1 778						NIA	NA	NF	NF	NF	NA	NA	NA	
		5858-81-1	QJ1975000	226-109-5	0.5-1.5	NA		INI		INI	INA			
	50 (RED 7)	5858-81-1	QJ1975000	226-109-5	0.5-1.5	NA	INA	INI	INF	INI	ΝA			
158		5858-81-1 13473-26-2	QJ1975000 LM5870000	226-109-5 236-747-6	0.5-1.5	NA	NA	NF	NF	NF	NA	NA	NA	
: 158 : 454	50 (RED 7) 10 (RED 28)	13473-26-2	LM5870000	236-747-6	0.5-1.5	NA	NA	NF	NF	NF	NA	NA		
CI 158 CI 454	50 (RED 7)												NA	
CI 158 CI 454 CI 733	50 (RED 7) 10 (RED 28) 60 (Red 30)	13473-26-2	LM5870000	236-747-6	0.5-1.5	NA	NA	NF	NF	NF	NA	NA		
CI 158 CI 454 CI 733	50 (RED 7) 10 (RED 28)	13473-26-2 2379-74-0	LM5870000	236-747-6 219-163-6	0.5-1.5	NA	NA	NF	NF NF	NF NF	NA NA	NA	NA	
158 454 733	50 (RED 7) 10 (RED 28) 60 (Red 30)	13473-26-2 2379-74-0	LM5870000	236-747-6 219-163-6	0.5-1.5	NA	NA	NF	NF NF	NF NF	NA NA	NA	NA	



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

SDS Revision: 4.2

A. FIRST AID MEASURES 41 First Ait Ingestion: If ingestide, do not induce vormingly Construct 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 the was savallowed. 28.11: If initiation occurs & product is on the skin, rinse thoroughly with lukewarm water, followed by a thoroughly washing of the affected area with leptory of soop and water. Remove constrainated clothing and wast thoroughly before reuse. If initiation, redness or swelling parsists, consult a physician immediately. Even: If product gets in the ways, flash with consous anounts of lukewarm water, followed by a thoroughly the skin thoroughly before reuse. If initiation, induces or swelling parsists, consult a physician immediate initiation, redness string and teering. 42 Effect of Equovie: Ingestion: May cause initiation in mouth and throat. May cause natures on the skin of constant, all sets of munutes. Open impact on the skin in the skin of constant, all sets in the skin of constant, all sets in the integer may cause initiation, redness at the skin of constant. All argic contact demastilis is possible with prolonged o repeated contact. Initiation: Diversional and watering. The product can cause allergic skin reactions to experisor on cause in the skin throat with check all constants. Using and difficulty the skin in product can cause allergic skin teactions (e.g., rashes, walt, demastilis in graves and the skin throat and watering. The product can cause allergic skin teactions (e.g., rashes, walt, demastilis in the skin skin throat and watering. The product can cause allergic skin teactions (e.g., rashes, walt, demastilis in the cause integer skin in additin the skin scin and treaskin all skin and regulated by a											
Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Shin: If induction cours & product is on the skin, rinse thoroughly with lokewarm water, followed by a thorough washing of the affected area with playn of scap and water. Remove contaminated dothing and wash thoroughly before reuse. If initiation, redness or swelling persists, consulted obting and wash thoroughly together reuse. If initiation, redness or swelling persists, consulted obting and wash thoroughly before reuse. If initiation, redness or swelling persists, consult a physician immediately. Evens: If ingradion: May cause initiation, redness at at soil, or thereating store, perform articial respiration. Seek immediate medical attention, indexidin: May cause initiation, redness, stinging and tearing. Skin: May cause initiation, redness, at instance in the weight store that with cheat discomfort, coughing and difficult repeated contact. Induction: May cause initiation is none sensitive individuals. Symptoms of skin noversposure may include redness, theing, and initiation of affected areas. Overexposure in pays may cause redness, itching and watering. The product can cause allergic skin reactions (e.g., rashes, wells, dematilis providenses, ducting and watering. The product are asse allered areas. Additionally, high concentrations of vapors can cause drownerses, the mean and watering. The product are asse allered areas. Additionally, high concentrations of vapors can cause drownerses, the mean and watering. The product are asse allered areas. Additionally, high concentrations of vapors can cause drownerses the set on continue, and watering. The Asystem Nashing demantitis, other skin conditions, and disorders of the regression theads. The Asystem Nashing demantitis, other skin conditions, and disorders of the regression theads. The Asystem Nashing demantitis, other skin,			4. FIRST AID MEASURES								
4.1 Symptoms of Description Symptoms of Description If and Description If and Description If and Description 4.2 Effects of Exposure: If product gets in the eyes, flush with copious amounts of lukeware water for at least 15 minutes. Open and floce eyelif(s) to ensure throaged inrigitato. If initiation persists seek immediate medical attention. 4.2 Effects of Exposure: Ingestion: May cause inritation in mouth and throat. May cause nausea, vomiting and diarrhea. 4.2 Effects of Exposure: Ingestion: May cause inritation in mouth and throat. May cause anausea, vomiting and diarrhea. 4.3 Symptoms of shiro overexposure may cause arbitration in nose and throat with head diardea medical and difficultion be repeated contact. Infaelation: to respiratory tract. May cause infaelation in orse and throat with head diardea areas. Overexposure in eyer may cause arbitrating. Excassive inhalation of dust may result in excliptions of shiro overexposure in a provincide or denses, itching, and watering. The product can cause allergic shir reactions (e.g., rashes, wetts, demantitis upon prolonged or repeated exposure. 4.4 Acase Heath Effects No long-term health effects are known. 4.3 Term of these, shiring and matering. Presetsing demantitis, shiring and matering. 4.4 Acase Heath Effects No long-term health effects are known. 4.3 Terue dogras (spes, shirin, and resprizony system. <t< td=""><td>4.1</td><td>First Aid:</td><td>Provide an estimate of the time at which the material was ingested and the amount of the substance</td><td></td></t<>	4.1	First Aid:	Provide an estimate of the time at which the material was ingested and the amount of the substance								
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Line May cause irritation, redness, stinging and tearing. Stin: Prolonged exposure may value irritation in nose and throat with chest disconfort, coughing and dificulty breathing. Excessive inhaliation of dust may result in sensitization and irritation to respiratory tract. May cause asthma-like symptoms in some sensitive individuals. 4.3 Symptoms of Overoposure: Symptoms of skin overoposure may include redness, itching, and irritation to respiratory tract. May cause redness, itching and watering. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis upon prolonged or repeated exposure. 4.4 Acute Health Effects: Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowniess. Giziness, head aches and nauses. 4.4 Acute Health Effects: No long-term health effects are known. Execution in the skin conditions, and disorders of the target organs (eyes, skin, near susceptible to dermatitis, asthm or bronchitis. Image: self-contained execution in execution in the susceptible to dermatitis, asthm or bronchitis. 5.1 Fire & Explosion Hazardi: Keep away from excessive heat, open fitames, sparks, and other possible sources of ignition. 5.1 Fire			3 1 1 1	diate							
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Aggravated by Exposure: In the Construction and non-control system). Preclude from exposure those individuals that are susceptible to dermatitis, asthm or bronchitis. Image: The Construction of the Consthe Construction of the Construction of the	4.6	Target Organs:	Eyes, Skin, Respiratory System.								
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EYES SKIN 5. FIREFIGHTING MEASURES 5.1 Fire & Explosion Hazards: Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. 5.2 Extinguishing Methods: Carbon Dioxide, Dry Chemical, Water Spray. 5.3 Firefighting Procedures: Keep containers cool until well after the fire is out. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters should wear full face, self-contained breathing apparatus (MSHA/NIOSH approved or the equivalent) and impervious protective clothing. 6. ACCIDENTAL RELEASE MEASURES 6.1 Spilled product may produce a slip hazard. Before cleaning any spill, individuals involved in spill cleanup must wea appropriate Personal Protective Equipment including gloves, glasses and NIOSH approved (or equivalent) dus respirator. Carefully vacuum or sweep up the spilled poduct. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas. Remove any contaminated clothing and wash thoroughly before reuse. 7. HANDLING & STORAGE INFORMATION 7.1 Work & Hyglene Practices: Avoid prolonged contact with this material. Limit inhalation of the vapors generated by this product. Use in a well using this product. Do not eat, drink, or smoke while handling this product. Use in a well using this product. Use in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Keep away from incompatible materials listed in Section 10.											
5. FIREFIGHTING MEASURES 5.1 Fire & Explosion Hazards: Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. 5.2 Extinguishing Methods: Carbon Dioxide, Dry Chemical, Water Spray. 5.3 Firefighting Procedures: Keep containers cool until well after the fire is out. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters should wear full face, self-contained breathing apparatus (MSHA/NIOSH approved or the equivalent) and impervious protective clothing. 6. ACCIDENTAL RELEASE MEASURES 6.1 Spille: Spilled product may produce a slip hazard. Before Cleaning any spill, individuals involved in spill cleanup must wea appropriate Personal Protective Equipment including gloves, glasses and NIOSH approved (or equivalent) dus respirator. Carefully vacuum or sweep up the spilled powder. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas. Remove any contaminated clothing and wash thoroughly before reuse. 7.1 Work & Hygiene Practices: Avoid prolonged contact with this material. Limit inhalation of the vapors generated by this product. Use in a well using this product. Do not eat, drink, or smoke while handling this product. 7.1 Vork & Hygiene Practices: Avoid prolonged contact with this material. Limit inhalation			PROTECTIVE EQUIPMENT B	\$							
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7.3 Special Precautions: Spilled material may present a slipping hazard if left unattended. Clean all spills promptly.			heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatible materials liste Section 10. Do not store in damaged or unmarked containers or storage devices. Keep containers securely clo when not in use. Open slowly on a level, stable surface. Empty containers may contain residual amounts of product; therefore, empty containers should be handled with care. Keep away from children at all times!	ed in osed							
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		8. EXPOSURE CON	TPA	160	DEDC						
0.4	Evenesure Limiter	0. EXPUSURE CON			PERC			IEC			OTUER
8.1	Exposure Limits: ppm (mg/m ³)			GIH	ES-	NOHSC ES-	ES-		OSHA		OTHER
			TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	
		POLYMETHYL METHACRYLATE BENZOYL PEROXIDE	(10)	NA	NF	NF	NF	(10)	NA	NA	
		CI 77891 (TITANIUM DIOXIDE)	(5) (15)	NE NA	(5) NF	NF NF	NF NF	(5) (15)	NA NA	1500 NA	
8.2	Ventilation & Engineering	When working with large quar	(-)								aust ventilation, fans).
	Controls:	Ensure that an eyewash station	sink o	r washb	asin is av	ailable in	case of e	exposure	e to eye	s.	-
8.3	Respiratory Protection:	No special respiratory protection									
		instances where vapors or spi needed, use only protection aut									
		the Canadian CAS Standard									
		member States, or Australia.			approad	ie etailae		anaala			
8.4	Eye Protection:	Avoid eye contact. Use approv	ed safe	ety glas	ses or g	oggles. I	Jse equip	oment fo	or eye j	orotectic	n 🦱
		tested and approved under a									
		166(EU).									
8.5	Hand Protection:	AVOID SKIN CONTACT DUE									
		repeated skin contact will occur industrial use. If necessary, ref									
		Canada, of the EU member stat		.0. 001	IA 25 01	11 31510.	100, 110	appropr		nuarus (
8.6	Body Protection:	AVOID SKIN CONTACT DU	Е ТО	SENSIT	IZING P	OTENTI	L. Hov	vever,	no spe	cial boo	ly
		protection is required under ty						. If ne	cessary	, refer t	to
		appropriate standards of Canad	a, the E	U mem	ber state	s, or U.S.	OSHA.				
			• •					-6			
9.1	Appearance:	9. PHYSICAL	- & L		ICAL	PROP		23			
9.1	Odor:	Clear powder									
9.3	Odor Threshold:	Mild acrylic odor, in bulk									
9.4	pH:	NA									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling										
	Range:	NA									
9.7	Flashpoint:	264 °C (508 °F), TCC									
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:	Insoluble in water									
9.13	Partition Coefficient (log Pow):	NA									
9.14	Autoignition Temperature:	NA									
9.15	Decomposition Temperature:	NA									
9.16	Viscosity:	NA									
9.17	Other Information:	NA									
		10. ST		ITV 9		СТІЛІ	ту				
10.1	Stability:	Relatively stable under ambient									
10.1	Hazardous Decomposition	If exposed to extremely high te					decomo	nsition	may inc	lude irri	tating vanors and toxic
	Products:	gases (e.g., oxides of carbon (C					accomp		nay Inc		any vapors and toxic
10.3	Hazardous Polymerization:	Will not occur.	, = 92	,	(•	// ⁻					
10.4	Conditions to Avoid:	Exposure or contact to extreme	temper	atures,	incompat	ible chem	nicals, stro	ong ligh	t source	s, spark	s, flame.
10.5	Incompatible Substances:	Strong oxides, peroxides or stro			1 ~		,	5 5			
		÷ ·	-								
		11. TOXIC	OLO	GICA	LINF	ORM					
11.1	Routes of Entry:	Inhalation: YES					10			Inges	stion: YES
11.2	Toxicity Data:	This product has not been teste	d on a	nimals to	o obtain t	oxicologi	cal data.	There a	are toxic	ology d	
		of this product, which are found									
11.3	Acute Toxicity:	See Section 4.4									
11.4	Chronic Toxicity:	No long-term health effects are									
11.5	Suspected Carcinogen:	This product contains Benzoyl F	Peroxide	<u>e</u> , which	is not ca	ircinogeni	ic to huma	ans, but	is listed	d as Gro	up 3 carcinogen by the
		IARC.									



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11.6	Reproductive Toxicity:	11. TOXICOLOGICAL INFORMATION – cont'd
11.0		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:	This product will slowly volatile from soil. Components of this product will slowly decompose into organic compounds.
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, releases of large volumes may be harmful or fatal to overexposed aquatic life. Aquatic toxicity data for components of this product are available, but are not presented in this Safety Data Sheet.
		13. DISPOSAL CONSIDERATIONS
13.1	Waste Disposal:	Dispose in accordance with local, state and Federal hazardous waste laws.
13.2	Special Considerations:	NA
10.2	opolial considerations	
		14. TRANSPORTATION INFORMATION
		proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information (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 contains Benzoyl Peroxide, a substance 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 Safety Data Sheet 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:	Benzoyl Peroxide is found on the following state criteria lists: Florida Toxic Substances List (FL), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), Pennsylvania Right-to-Know List (PA), and Washington Permissible Exposures List (WA. <u>Polymethyl Methacrylate</u> is found on the following state criteria list: NJ, PA 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:	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.



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		16. OTHER INFORMATION					
16.1	Other Information:	WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. Precisely follow directions and Safety Data Sheet for use. Avoid skin contact. If redness or other signs of adverse reaction occur, discontinue use immediately. Use only in a well ventilated area. A ventilation system that expels vapors to the outdoors is recommended. In case of emergency, contact your physician or local Poison Control Center immediately. FOR PROFESSIONAL USE ONLY.					
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:	OPI Products, Inc. 4500 Park Granada Blvd Calabasas, CA 91302 USA Tel: +1 (818) 999-5112 http://www.opi.com					
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com					



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REACTIVITY

SPECIAL PRECAUTIONS

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

SDS Revision: 4.2

SDS Revision Date: 4/12/2018

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.
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTION
4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:

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Α	6		G 🕞 🕚 🚱	
в			н 🕞 🕔 🏠 😧	3
С	6		I 🖨 🜒 🚱	
D	B		J 🚱 🚺 🚳	2
Е	6		к 🕜 🖤 🚯 🕻	3
F	8		X Consult your supervisor or SOPs special handling directions.	s for
Sa	(Fety Glasses	Splash Goggles	Face Shield & Gloves	
	Boots	Protective Apron	Protective Eyewear Protective Clothing & Full Suit	r
Full I	Face Respirator	Dust & Vapor Half- Mask Respirator	Full Face Respirator	sk

OTHER STANDARD ABBREVIATIONS:

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

FLAMMABILI	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	FLAMMABILITY
1	Slight Hazard	
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/ ₹ ¥
W	Use No Water	HEALTH
ох	Oxidizer	~
TREFOIL	Radioactive	

TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals	
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal	
ppm	Concentration expressed in parts of material per million parts	
TD _{Io} Lowest dose to cause a symptom		
TCLo	Lowest concentration to cause a symptom	
TD _{io} , LD _{io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects	
TC, TC _o , LC _{io} , & LC _o		
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)
WGK	Wassergefährdungsklassen (German Water Hazard Class)

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

\bigcirc	۲	٨		1	۲		
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compress ed	Flammabl e	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

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

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