SAFETY DATA SHEET

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

SDS Revision: 1.1

SDS Revision Date: 4/12/2018

		1. PRODUCT & COMPANY IDENTIFICATION
1.1	Product Name:	OPI INFINITE SHINE RIDGE FILLER PRIMER
.2	Chemical Name:	NA NA
.3	Synonyms:	NA NA
.4	Trade Names:	IST12
.5	Product Use:	Professional or Sundry Use Only
.6	Distributor's Name:	OPI Products, Inc.
.7	Distributor's Address:	4500 Park Granada Blvd, Calabasas, CA 91302 USA
.8	Emergency Phone:	CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 16377)
1.9	Business Phone / Fax:	Tel: +1 (818) 999-5112
		A LIATADDO IDENTIFICATION
		2. HAZARDS IDENTIFICATION
2.1	Hazard Identification:	This product is classified as a hazardous substance and as dangerous goods according to the classification criteria
		NOHSC: 1088 (1999) and ADG Code (Australia).
		WARNING! FLAMMABLE LIQUID AND VAPOR. CAUSES SERIOUS EYE IRRITATION. CAUSES MILD SK
		IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS
		Classification: Flam. Liq. 3; Eye Irrit. 2A; Skin Irrit. 3; STOT RE 3
.2	Label Elements:	Hazard Statements (H): H226 – Flammable liquid and vapor. H319 – Causes serious eye irritation.
		H316 – Causes mild skin irritation. H336 – May cause drowsiness or dizziness.
		Precautionary Statements (P): P210 – Keep away from heat, hot surfaces, sparks, open flames
		and other ignition sources. No smoking. P233 – Keep container tightly closed. P261 - P261 –
		Avoid breathing dust/fume/vapors. P271 – Use only outdoors or in a well-ventilated area.
		P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse
		skin with water or shower. P370+P378 – In case of fire: Use CO ₂ , Halon (if permitted), Dry
		Chemical, Foam, as authorized. P304+P340 – IF INHALED: Remove person to fresh air and keep
		comfortable for breathing. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several
		comfortable for breathing. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 – If eye
		comfortable for breathing. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 – If eye irritations persist: Get medical advice. Attention. P332+P313 – If skin irritation occurs: Get medical
		comfortable for breathing. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 – If eye irritations persist: Get medical advice. Attention. P332+P313 – If skin irritation occurs: Get medical advice attention. P403+P235 – Store in a well-ventilated place. Keep cool. P501 – Dispose of
		comfortable for breathing. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 – If eye irritations persist: Get medical advice. Attention. P332+P313 – If skin irritation occurs: Get medical advice attention. P403+P235 – Store in a well-ventilated place. Keep cool. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).
.3	Other Warnings:	comfortable for breathing. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 – If eye irritations persist: Get medical advice. Attention. P332+P313 – If skin irritation occurs: Get medical advice attention. P403+P235 – Store in a well-ventilated place. Keep cool. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF). Avoid skin contact due to sensitizing potential.
3	Other Warnings:	comfortable for breathing. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 – If eye irritations persist: Get medical advice. Attention. P332+P313 – If skin irritation occurs: Get medical advice attention. P403+P235 – Store in a well-ventilated place. Keep cool. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).

	EXPOSURE LIMITS IN AIR (mg/m³)												
					AC	GIH		NOHSC			OSHA		
					pp	m		ppm			ppm		
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
BUTYL ACETATE	123-86-4	AF7350000	204-658-1	30-50	150	200	150	200	NF	200	200	1700	100 NIOSH
BUTTLACETATE	Flam. Liq. 3; S	TOT SE 3; H226,	H336										
ETHYL ACETATE	141-78-6	AH5425000	205-500-4	25-40	400	400	200	400	NF	NA	NA	2000	400 TWA
EINTLACETATE	Flam. Liq. 2; Ey	e Irrit. 2; STOT S	SE 3; H225, H31	9, H336									
POLYVINYL BUTYRAL	63148-65-2	TR49550000	NA	10-20	NA	NA	NF	NF	NF	NA	NA	NA	
TOSYLAMIDE/	25035-71-6	QW0970000	200-001-8	5-10	(10)	NE	NF	NF	NF	(10)	NE	NE	
EPOXY RESIN			_										
ACETYL TRIBUTYL CITRATE	77-90-7	NA	201-067-0	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
AGETTE TRIBOTTE CITIVATE	Flam. Gas 1; N	luta. 1B; Carc. 1E	3; H220, H340, F	1350									
SILICA	7631-86-9	VV7310000	231-545-4	1-5	NA	NA	NF	NF	NF	NA	NA	3000	RESP FRAC
DUT # ALCOHOL	71-36-3	EO1400000	200-751-6	0.1-1	NA	50	50	152	50	100	NA	1400	
BUTYL ALCOHOL	Flam. Liq. 3; Ad	cute Tox. 4; Skin	Irrit. 2; Eye Dam	. 1; STOT S	SE 3; H	226, H	302, H3	15, H3	18, H33	5, H336	6		
MICROCRYSTALLINE CELLULOSE	9004-34-6	NA	323-674-9	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
		•											
HYDROGENATED CASTOR OIL/SEBACIC ACID COPOLYMER	NA	NA	NA	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
	131-56-6	DJ0700000	205-029-4	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
BENZOPHENONE-1		e Irrit. 2; STOT SI		-									
TOCOPHERYL ACETATE	7695-91-2	GA8747000	231-710-0	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
	7700 40 5	700440000	1004 404 0	0.04	NIA	NIA.	NE	NE	NE	NIA	NIA.	NIA	
WATER (AQUA/EAU)	7732-18-5	ZC0110000	231-191-2	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	
CAPRYLIC/CAPRIC TRIGLYCERIDE	65381-09-1	NA	265-724-3	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	
HELIANTHUS ANNUUS (SUNFLOWER) SEED OIL	84776-03-4	NA	232-273-9	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	
130 131111/ 3223 312	1												

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								ORMATION EXPOSURE L			LIMITS IN AIR (mg/m³)					
						AC	GIH		NOHSC			OSHA	<u> </u>			
						pp	m		ppm			ppm				
CHEMICAL NAME(S)		CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	ОТНЕ	R	
CI 77	891 (TITANIUM DIOXIDE)	13463-67-7	XR2275000	236-675-5	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA			
PRO	PYLENE GLYCOL	57-55-6	TY200000 ye Irrit. 2; H316, I	200-338-0	0-0.1	NA	NA	474	NF	NF	NA	NA	NA			
MOR	INGA OLEIFERA SEED OIL	93165-54-9	NA	296-941-1	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA			
CI 77	004 (QUARTZ)	1318-74-7	FF5800000	215-609-9	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA			
	OXIDES (CI 77491, CI 77492,	1332-37-2	NA	NA	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA			
CI 77	·	91771-33-4	NA .	294-923-8	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA			
BAMI	BUSA VULGARIS EXTRACT		- 1													
POTA	ASSIUM SORBATE	590-00-1	NA	246-376-1	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA			
	JMBO NUCIFERA FLOWER RACT	85085-51-4	NA	285-379-2	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA			
SORI	BIC ACID	110-44-1 Skin Irrit 2: F	WG2100000 ye Irrit. 2 STOT S	203-768-7 SE 3(inhalation):	0-0.1 H315 H319	NA H335	NA	NF	NF	NF	NA	NA	NA			
PHO	SPHORIC ACID	7664-38-2	Tb6300000	231-633-2	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA			
1100	SI HONG AGID	Skin Corr. 1B 1934-21-0	; H314 UQ6400000	217-699-5	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA			
CI 19	140 (YELLOW 5)	1954-21-0	000000	217-099-0	0-0.1	IVA	IVA	141	INI	INI	INA	IVA	IVA			
roc(OPHEROL	54-28-4 Chronic Aq. 7	NA	200-201-5	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA			
		Ingestion:	number. Pro													
		Eyes:	substance tha Splashes are	t was swallow not likely; how	ed. ever, if pro	duct ge	ets in t	he eye	s, flusl		•		and the		of t	
		Skin:	substance tha Splashes are if for at least 15 If irritation occ washing of th physician imm	t was swallow not likely; how minutes. If irr curs and produ e affected are lediately.	red. rever, if pro ritation occi act is on the	duct ge urs, con e skin,	ets in t ntact a rinse tl	he eye physion	s, flusl cian. phly wit	n with	copiou warm	s amo water,	and the unts of	e amount flukewarm ed by a tho	of the water	
4.2	Effects of Exposure:	Skin:	substance tha Splashes are of for at least 15 If irritation occuration occuration of the physician imm Remove victim	t was swallow not likely; how minutes. If irr curs and produ e affected are nediately. n to fresh air.	red. rever, if pro- ritation occur ritation occur ret is on the rea with so-	duct ge urs, con e skin, ap and	ets in t ntact a rinse t I wate	he eye physion horoug r. If ir	s, flusl cian. hly wit ritatior	n with th luke	copiou warm	s amo water, r swell	unts of followering pe	e amount f lukewarm ed by a tho ersists, cor	of the water	
4.2	·	Skin: Inhalation: Ingestion: Eyes: Skin: Inhalation:	substance tha Splashes are of for at least 15 If irritation occurs washing of the physician imm Remove victing. If product is depression. Irritating to the May be irritating vapors of this system. Symbreathing. In Information on ausea).	t was swallow not likely; how minutes. If irr surs and produce affected are nediately. In to fresh air. swallowed, researched to skin in see so product may aptoms of overhalation of vican cause ce	reed. rever, if pro- ritation occi ret is on the rea with so- rea with	duct geurs, con e skin, ap and e nauserexposive indiction can irreding ous sy	ets in tontact a rinse to large mea, vocasure moviduals ting to noclude the lestern	he eye physic horoug r. If ir miting ay incl s, espe the n cough vels li depres	s, flusician. Inly with ritation and/oude recially a cose, thing, we sted in sision (n with the luke of	rhea a itching rolonge and other itching, na itching on 3 drowsi	water, r swell and co	entral ation are sues congestion dizzino	e amount flukewarm ed by a tho ersists, cor nervous s and watering eated cont of the resp on, and di and lingress, heads	wat wat wat proug tact yste yste irato fficu edie ache	
	·	Skin: Inhalation: Ingestion: Eyes: Skin: Inhalation:	substance tha Splashes are for at least 15 If irritation occurs washing of the physician imm Remove victing If product is depression. Irritating to the May be irritating vapors of this system. Symbreathing. In Information on ausea).	t was swallow not likely; how minutes. If irr surs and produce affected are dediately. In to fresh air. swallowed, receives. Symposing to skin in second product may aptoms of over the dediation of vice an cause cerposure in in	red. rever, if pro- ritation occur ritation occur rever is on the rea with so- rea	duct geurs, con e skin, ap and nause erexposive indi y irrita can ir eding ous sy	ets in tontact a rinse to large mea, volume module to the lessen module estem	he eye physic horoug r. If ir miting ay incl s, espe the n cough vels li depres	s, flusician. Inly with ritation and/or ude recially a cose, thing, we sted in sision (n with the luke of	rhea a itching rolonge and other itching, na itching on 3 drowsi	water, r swell and co	entral ation are sues congestion dizzino	e amount flukewarm ed by a tho ersists, cor nervous s and watering eated cont of the resp on, and di and lingress, heads	wat wat wat proug tact yste yste irato fficu edie ache	
4.3	Symptoms of Overexposure: Acute Health Effects:	Skin: Inhalation: Ingestion: Eyes: Skin: Inhalation: Symptoms of Overexposur Mild to mode	substance tha Splashes are of at least 15 If irritation occurs washing of the physician imm Remove victing If product is depression. Irritating to the May be irritating vapors of this system. Symbreathing. In Information) conausea).	t was swallow not likely; how minutes. If irr turs and produce affected are lediately. In to fresh air. swallowed, respectively as to skin in season product may approme of over the lediation of vican cause certains and skin in incause redness of eyes and skin in season eyes and skin in incause redness of eyes and eyes and eyes and eyes and eyes of eyes eyes of eyes and eyes of eyes eyes and eyes of eyes eyes of eyes eyes of eyes eyes eyes eyes eyes eyes eyes eye	red. rever, if pro- ritation occur ict is on the rea with so- may cause toms of ove toms sensit ry be slightly rerexposure reapors exce- rentral nerve dividuals s, itching ar in near affi	duct geurs, con e skin, ap and e nauserexposive indi y irrita can ir eding ous sy may ind water	ets in tontact a rinse to la water moviduals ting to nollude the leastern modude ering.	he eye physic horoug r. If ir omiting ay incl s, espe the n cough vels li depres	s, flusician. Inly with ritation and/or ude recially a cose, thing, we sted in ssion (ess, it	or diar dness after proper a wheezing Sections, ching,	rhea a itching rolonge and other itching and other itching and other itching, nation 3 drowsi	water, r swell and cong, irritated and her tiss sal co (Compness, irritation	entral ation and lor repsection of one of	e amount flukewarm ed by a tho ersists, cor nervous s and watering eated conf of the resp on, and di and lngr ess, head affected	wat	
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4.3	Symptoms of Overexposure: Acute Health Effects: Chronic Health Effects:	Skin: Inhalation: Ingestion: Eyes: Skin: Inhalation: Symptoms of Overexposur Mild to mode drowsiness, of None known.	substance tha Splashes are of at least 15 If irritation occurs washing of the physician imm Remove victing If product is depression. Irritating to the May be irritating Vapors of this system. Symbreathing. In Information) conausea).	t was swallow not likely; how minutes. If irr surs and produce affected are rediately. In to fresh air. swallowed, respondent to skin in second and an exposure in incause redness of eyes and skin aches and na	red. rever, if pro- ritation occur ict is on the rea with so- may cause toms of ove toms sensit ry be slightly rerexposure reapors exce- rentral nerve dividuals s, itching ar in near affi	duct geurs, con e skin, ap and e nauserexposive indi y irrita can ir eding ous sy may ind water	ets in tontact a rinse to la water moviduals ting to nollude the lestern mollude ering.	he eye physic horoug r. If ir omiting ay incl s, espe the n cough vels li depres	s, flusician. Inly with ritation and/or ude recially a cose, thing, we sted in ssion (ess, it	or diar dness after proper a wheezing Sections, ching,	rhea a itching rolonge and other itching and other itching and other itching, nation 3 drowsi	water, r swell and cong, irritated and her tiss sal co (Compness, irritation	entral ation and lor repsection of one of	e amount flukewarm ed by a tho ersists, cor nervous s and watering eated conf of the resp on, and di and lngr ess, head affected	water	
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4.3 4.4 4.5 4.6	Symptoms of Overexposure: Acute Health Effects: Chronic Health Effects: Target Organs: Medical Conditions	Skin: Inhalation: Ingestion: Eyes: Skin: Inhalation: Symptoms of Overexposur Mild to mode drowsiness, of None known. Eyes, skin ar	substance tha Splashes are of for at least 15 If irritation occurs washing of the physician imm Remove victim If product is depression. Irritating to the May be irritating to the May be irritating Vapors of this system. Symbreathing. In Information) of nausea). If skin overexe in eyes may contact irritation to dizziness, head	t was swallow not likely; how minutes. If irr surs and produce affected are rediately. In to fresh air. swallowed, respondent to skin in second to skin in s	red. rever, if pro- ritation occur r	duct geurs, con e skin, ap and e nauserexposive indi y irrita can ir eding ous sy	ets in tontact a rinse to la water moviduals ting to nollude the lestern mollude ering.	he eye physic horough. If in omiting ay incl s, espe the n cough vels lideprese Additi	s, flusician. Inly witritation and/o ude recially a cose, thing, wasted in the state on ally, wasted the state on ally, the state of the state on ally, the state of the	th luken, redrordiars dispersion of the control of	copious warm viess of the arm viess of t	water, r swell and cong, irritated and congress, irritation	entral entral ation and lor repsues consition of one of v	e amount flukewarm ed by a the ersists, cor nervous s and watering eated cont of the resp on, and ling ess, head affected apors can	waarouutac yste yste g. cact irate edicache area cau	
4.3 4.4 4.5 4.6	Symptoms of Overexposure: Acute Health Effects: Chronic Health Effects: Target Organs: Medical Conditions	Skin: Inhalation: Ingestion: Eyes: Skin: Inhalation: Symptoms of Overexposur Mild to mode drowsiness, of None known. Eyes, skin ar	substance tha Splashes are of for at least 15 If irritation occurs washing of the physician imm Remove victim If product is depression. Irritating to the May be irritating to the May be irritating Vapors of this system. Symbreathing. In Information) of nausea). If skin overexe in eyes may contact irritation to dizziness, head	t was swallow not likely; how minutes. If irr surs and produce affected are rediately. In to fresh air. swallowed, respondent to skin in second to skin in s	red. rever, if pro- ritation occur r	duct geurs, con e skin, ap and e nauserexposive indi y irrita can ir eding ous sy	ets in tontact a rinse to la water moviduals ting to nollude the lestern mollude ering.	he eye physic horough. If in omiting ay incl s, espe the n cough vels lideprese Additi	s, flusician. Inly witritation and/o ude recially a cose, thing, wasted in the state on ally, wasted the state on ally, the state of the state on ally, the state of the	th luken, redrordiars dispersion of the control of	copious warm viess of the arm viess of t	water, r swell and cong, irritated and congress, irritation	entral ation are sues congestion of of v	e amount flukewarm ed by a the ersists, cor nervous s and watering eated cont of the resp on, and ling ess, head affected apors can	waannoon waxoo wax	

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		5. FIRE	FIGHT	INIC M	IEVCII	DEC					
5.1	Fire & Explosion Hazards:	DANGER! HIGHLY FLAMMABI					av from h	neat lit ci	inarettes	2	
5.1	THE & Explosion Hazards.	sparks & open flame. Keep conta			VAI OIX:	reep av	ay iloili i	icat, iit ci	igarettes	,	
5.2	Extinguishing Methods:	CO ₂ , Halon (if permitted), Dry Che			uthorized.						
5.3	Firefighting Procedures:	This product is a Class IB flamma	able liquid	l. When	involved in	n a fire, t	his produc	t will ignit	te readil	v .	3
		and decompose to produce carbo									1 0
		travel to a source of ignition and fl								`	Y
		First responders should wear ey									
		protective equipment. Use a wa				or direct	vapors. \	Nater ma	ıy not b	е	
		effective in actually extinguishing	a fire invo	olving this	product.						
		6. ACCIDEN	TAL R	ELEA	SE ME	ASUF	RES				
6.1	Spills:	Before cleaning any spill or lea	ak, individ	duals inv	olved in s	pill clea	nup must	wear ap	propriat	e Perso	nal Protective
		Equipment.									
		For small spills (e.g., < 1 gallon (3									
		spilled material with absorbent ma									
		accordance with local, state and								ontainer	with plenty of
		warm water and soap. Remove ar									
		For <u>large spills</u> (e.g., ≥ 1 gallon									
		material (e.g., sand or earth). Tra containers for proper disposal. R	inster liqu	nd to con	tainers for	recover	y or dispos	sai and so	olia alkii	ig mater	ial to separate
		water. Keep spills and cleaning ru								ı areas	with soap and
		water. Reep spills and cleaning to	ilions out	oi urairis	, mumcipa	I SCWCIS	and open	bodies oi	water.		
		7. HANDLING									
7.1	Work & Hygiene Practices:	Avoid prolonged contact with the									
		local exhaust ventilation, fans).	After use	, wash h	ands and	exposed	l skin with	soap an	d water	. Do no	ot eat, drink o
		smoke while handling product.									
7.2	Storage & Handling:	Keep this material away from hea									
7.2	Storage & Handling:	closed tightly when not in use.	Empty	containe	r may cor	ntain res	idual amo	unts of t	this pro	duct; the	erefore, empty
7.2	Storage & Handling:	closed tightly when not in use. containers should be handled wit	Empty th care.	containe Store cor	r may cor ntainers in	ntain res a cool, o	idual amo dry locatio	ounts of t n, away f	this pro- from dire	duct; the	erefore, empty
		closed tightly when not in use. containers should be handled wit sources, or sources of intense her	Empty th care. at. Store	containe Store cor away fro	r may cor ntainers in m incompa	ntain res a cool, o atible ma	idual amo dry locatio terials (Se	ounts of t n, away f e Section	this prof from dire 10).	duct; the ect sunli	erefore, empty ght, other light
7.2	Storage & Handling: Special Precautions:	closed tightly when not in use. containers should be handled wit	Empty th care. at. Store ble surfa	containe Store cor away fro ce. Kee	r may cor ntainers in m incompa p containe	ntain res a cool, o atible ma er tightly	idual amo dry locatio terials (Se closed wh	ounts of to n, away for e Section nen not in	this prof from dire 10). n use.	duct; the ect sunli	erefore, empty ght, other light
		closed tightly when not in use. containers should be handled wit sources, or sources of intense her Open containers slowly on a sta contain residual amounts of this p	Empty th care. at. Store ble surfa roduct; th	containe Store cor away fro ce. Kee erefore,	r may cor ntainers in m incompa p containe empty con	ntain res a cool, o atible ma er tightly tainers si	idual amo dry locatio terials (Se closed wh hould be h	ounts of t n, away t e Section nen not ir andled w	this prof from dire 10). n use.	duct; the ect sunli	erefore, empty ght, other light
7.3	Special Precautions:	closed tightly when not in use. containers should be handled wit sources, or sources of intense her Open containers slowly on a sta	Empty th care. at. Store ble surfa roduct; th	containe Store cor away fro ce. Kee erefore,	r may cor ntainers in m incompa p containe empty con	ntain res a cool, o atible ma er tightly tainers sl	idual amo dry locatio terials (Se closed wh hould be h	ounts of t n, away t e Section nen not ir andled w	this pro- from dire 10). I use. ith care.	duct; the ect sunli	erefore, empty ght, other light containers may
	Special Precautions: Exposure Limits:	closed tightly when not in use. containers should be handled wit sources, or sources of intense her Open containers slowly on a sta contain residual amounts of this p	Empty th care. at. Store ble surfa roduct; th	containe Store cor away fro ce. Kee erefore,	r may cor ntainers in m incompa p containe empty con	ntain res a cool, of atible ma er tightly tainers sl AL PF NOHSC	idual amodry location terials (Se closed whould be heard)	ounts of t n, away t e Section nen not ir andled w	this prof from dire 10). n use.	duct; the ect sunli	erefore, empty ght, other light
7.3	Special Precautions:	closed tightly when not in use. containers should be handled wit sources, or sources of intense her Open containers slowly on a sta contain residual amounts of this p	Empty th care. at. Store ble surfa roduct; th	containe Store cor away fro ce. Kee erefore,	r may cor ntainers in m incompa p containe empty con	ntain res a cool, o atible ma er tightly tainers sl	idual amo dry locatio terials (Se closed wh hould be h	ounts of t n, away t e Section nen not ir andled w	this pro- from dire 10). I use. ith care.	duct; the ect sunli	erefore, empty ght, other light containers may
7.3	Special Precautions: Exposure Limits:	closed tightly when not in use. containers should be handled wit sources, or sources of intense her Open containers slowly on a state contain residual amounts of this part of the sources. 8. EXPOSURE CONT CHEMICAL NAME(S) ETHYL ACETATE	Empty th care. at. Store able surfa roduct; th ROLS AC TLV 400	containe Store cor away fro ce. Kee erefore, 6 & PE GIH STEL 400	r may containers in mincompa p containe empty conta	a cool, of atible mater tightly tainers sl	idual amodry location terials (Second with hould be hould	e Section nen not in andled w	this profession direction	Empty c	erefore, empty ght, other light containers may OTHER
7.3	Special Precautions: Exposure Limits:	closed tightly when not in use. containers should be handled wit sources, or sources of intense her Open containers slowly on a sta contain residual amounts of this p 8. EXPOSURE CONT CHEMICAL NAME(S) ETHYL ACETATE BUTYL ACETATE	Empty th care. at. Store able surfa roduct; th ROLS AC TLV 400 150	containe Store cor away fro ce. Kee erefore, 6 & PE GIH STEL 400 200	r may containers in m incompa p containe empty con: RSON ES-TWA 200 150	a cool, of atible marer tightly tainers sl	idual amodry location terials (Second withhould be hare) ROTEC ES-PEAK NF NF	e Section nen not in andled w	chis pro- from direction d	Empty of IDLH 2000 1700	erefore, empty ght, other light containers may
7.3	Special Precautions: Exposure Limits:	closed tightly when not in use. containers should be handled wit sources, or sources of intense her Open containers slowly on a sta contain residual amounts of this p 8. EXPOSURE CONT CHEMICAL NAME(S) ETHYL ACETATE BUTYL ACETATE TOSLAMIDE/EPOXY RESIN	Empty th care. at. Store ble surfa roduct; th ROLS AC TLV 400 150 (10)	containe Store cor away fro ce. Kee erefore,	r may containers in m incompa p containe empty con: RSON ES-TWA 200 150 NF	a cool, of a tible marker tightly tainers sl	idual amodry location terials (Second withhould be hare) ROTEC ES- PEAK NF NF NF	e Section not in andled w	osha stel NA 200 NE	ect sunli Empty c IDLH 2000 1700 NE	erefore, empty ght, other light containers may OTHER 400 TWA 150 TWA
7.3	Special Precautions: Exposure Limits:	closed tightly when not in use. containers should be handled wit sources, or sources of intense her Open containers slowly on a sta contain residual amounts of this p 8. EXPOSURE CONT CHEMICAL NAME(S) ETHYL ACETATE BUTYL ACETATE TOSLAMIDE/EPOXY RESIN SILICA	Empty th care. at. Store ble surfa roduct; th ROLS AC TLV 400 150 (10) NA	containe Store cor away fro ce. Kee erefore, (r may containers in m incompa p container empty con: RSON ES-TWA 200 150 NF	tain res a cool, o atible ma er tightly tainers si AL PF NOHSC ES- STE 400 200 NF NF	idual amodry location terials (Second withhould be hare) ROTEC ES- PEAK NF NF NF NF	e Section nen not ir andled w TION PEL NA 200 (10) NA	osha stel NA 200 NE NA	Empty c	erefore, empty ght, other light containers may OTHER
7.3	Special Precautions: Exposure Limits:	closed tightly when not in use. containers should be handled wit sources, or sources of intense her Open containers slowly on a sta contain residual amounts of this p 8. EXPOSURE CONT CHEMICAL NAME(S) ETHYL ACETATE BUTYL ACETATE TOSLAMIDE/EPOXY RESIN SILICA BUTYL ALCOHOL	Empty th care. at. Store ble surfa roduct; th ROLS AC TLV 400 150 (10) NA NA	containe Store cor away fro ce. Kee erefore, (r may containers in m incompa p containers empty con: RSON ES-TWA 200 150 NF NF 50	tain res a cool, o atible ma er tightly tainers si AL PF NOHSC ES- STE 400 200 NF NF 152	idual amodry location terials (Second withhould be hare) ES-PEAK NF NF NF NF NF 50	e Section nen not ir andled w TION PEL NA 200 (10) NA 100	osha stel NA 200 NE NA	Empty c IDLH 2000 1700 NE 3000 1400	erefore, empty ght, other light containers may OTHER 400 TWA 150 TWA
8.1	Special Precautions: Exposure Limits: ppm (mg/m³)	closed tightly when not in use. containers should be handled wit sources, or sources of intense her Open containers slowly on a state contain residual amounts of this possible. 8. EXPOSURE CONT CHEMICAL NAME(S) ETHYL ACETATE BUTYL ACETATE TOSLAMIDE/EPOXY RESIN SILICA BUTYL ALCOHOL PROPYLENE GLYCOL	Empty th care. at. Store ble surfa roduct; th ROLS AC TLV 400 150 (10) NA NA NA	containe Store cor away fro ce. Kee erefore, (r may containers in m incompa p containers empty containe	a cool, of atible main reside tightly tainers since the cool of th	idual amodry location terials (Second withhould be hare) ES-PEAK NF	e Section nen not ir andled w TION PEL NA 200 (10) NA 100 NA	osha stell NA 200 NE NA NA	Empty control in the sect sunline in the sect	ontainers may OTHER 400 TWA 150 TWA RESP FRAC
7.3	Special Precautions: Exposure Limits:	closed tightly when not in use. containers should be handled wit sources, or sources of intense her Open containers slowly on a state contain residual amounts of this possible. 8. EXPOSURE CONT CHEMICAL NAME(S) ETHYL ACETATE BUTYL ACETATE TOSLAMIDE/EPOXY RESIN SILICA BUTYL ALCOHOL PROPYLENE GLYCOL When working with large quantities	Empty th care. at. Store ble surfa roduct; th ROLS AC TLV 400 150 (10) NA NA NA NA NA Ros of prod	containe Store cor away fro ce. Kee erefore, (r may containers in m incompa p containers empty con: RSON ES-TWA 200 150 NF NF 50 474 de adequa	AL PF NOHSC ES- STEP 152 NF tte ventila	idual amodry location terials (Second withhould be hare) ES-PEAK NF NF NF NF NF NF NF NF THE	PEL NA 200 (10) NA local exh	osha stell NA 200 NE NA NA	Empty control in the sect sunline in the sect	ontainers may OTHER 400 TWA 150 TWA RESP FRAC
8.1	Exposure Limits: ppm (mg/m³) Ventilation & Engineering Controls:	closed tightly when not in use. containers should be handled wit sources, or sources of intense her Open containers slowly on a state contain residual amounts of this possible. 8. EXPOSURE CONT CHEMICAL NAME(S) ETHYL ACETATE BUTYL ACETATE TOSLAMIDE/EPOXY RESIN SILICA BUTYL ALCOHOL PROPYLENE GLYCOL When working with large quantities that an eyewash station, sink or we	Empty th care. at. Store ble surfa roduct; th ROLS AC TLV 400 150 (10) NA NA NA NA es of prod vashbasin	containe Store cor away fro ce. Kee erefore, (r may containers in m incompa p containers empty containers are more more more more more more more mo	AL PF NOHSC ES- STEL 400 200 NF NF 152 NF ste ventila	idual amodry location terials (Second withhould be hard) ES-PEAK NF NF NF NF NF NF NF S0 NF ation (e.g., sure to eye	PEL NA 200 (10) NA local exhees.	osha stel NA 200 NE NA NA NA naust ve	Empty c IDLH 2000 1700 NE 3000 1400 NA ntilation,	ontainers may OTHER 400 TWA 150 TWA RESP FRAC
8.1	Special Precautions: Exposure Limits: ppm (mg/m³)	closed tightly when not in use. containers should be handled wit sources, or sources of intense her Open containers slowly on a state contain residual amounts of this possible. 8. EXPOSURE CONT CHEMICAL NAME(S) ETHYL ACETATE BUTYL ACETATE TOSLAMIDE/EPOXY RESIN SILICA BUTYL ALCOHOL PROPYLENE GLYCOL When working with large quantities that an eyewash station, sink or working special respiratory protection.	Empty th care. at. Store ble surfa roduct; th ROLS AC TLV 400 150 (10) NA NA NA so of products of produc	containe Store cor away fro ce. Kee erefore, (r may containers in m incompa p container may contained p contained my	AL PF NOHSC ES- STEL AU NF NF 152 NF ate ventila of exporting a cool, of atible mare tightly tainers si NOHSC ES- STEL AU 200 NF NF 152 NF ate ventila of exporting a cool of exporting a	idual amodry location terials (Seclosed whould be handled by the control of the c	PEL NA 200 (10) NA 100 NA local exhes.	osha osha osha stel NA 200 NE NA NA NA naust ve	Empty c IDLH 2000 1700 NE 3000 1400 NA ntilation,	ontainers may OTHER 400 TWA 150 TWA RESP FRAC
8.1	Exposure Limits: ppm (mg/m³) Ventilation & Engineering Controls:	closed tightly when not in use. containers should be handled wit sources, or sources of intense her Open containers slowly on a state contain residual amounts of this possible. 8. EXPOSURE CONT CHEMICAL NAME(S) ETHYL ACETATE BUTYL ACETATE TOSLAMIDE/EPOXY RESIN SILICA BUTYL ALCOHOL PROPYLENE GLYCOL When working with large quantities that an eyewash station, sink or working with large that an eyewash station, sink or working with large that an eyewash station, sink or working with large that an eyewash station, sink or working with large quantities that an eyewash station, sink or working with large quantities that an eyewash station, sink or working with large quantities that an eyewash station, sink or working with large quantities that an eyewash station, sink or working with large quantities that an eyewash station, sink or working with large quantities that an eyewash station, sink or working with large quantities that an eyewash station, sink or working with large quantities that an eyewash station, sink or working with large quantities that an eyewash station, sink or working with large quantities that an eyewash station, sink or working with large quantities that an eyewash station, sink or working with large quantities that an eyewash station, sink or working with large quantities that an eyewash station or working with large quantities that an eyewash station or working with large quantities that an eyewash station or working with large quantities that an eyewash station or working with large quantities that an eyewash station or working with large quantities that an eyewash station or working with large quantities that an eyewash station or working with large quantities that an eyewash station or working with large quantities that an eyewash station or working with large quantities that an eyewash station or working with large quantities that an eyewash station or working with large quantities that an eyewash was an eyewash with large quantities that an eyewash was an eyewash with large quanti	Empty th care. at. Store ble surfa roduct; th ROLS TLV 400 150 (10) NA NA NA so of prod rashbasin n is requ s of this	containe Store cor away fro ce. Kee erefore, (r may containers in m incompa p container empty container empt	AL PF NOHSC ES- STEL 400 NF NF 152 NF ate ventila	idual amodry location terials (Seclosed withould be handled by the second secon	PEL NA 100 NA 100 NA local exhibits or y protection on the protection of the protect	osha stel NA NA NA NA Naust ve	IDLH 2000 1700 NE 3000 1400 NA ntilation, g. In eeded,	ontainers may OTHER 400 TWA 150 TWA RESP FRAC
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8.1 8.2 8.3	Exposure Limits: ppm (mg/m³) Ventilation & Engineering Controls: Respiratory Protection:	closed tightly when not in use. containers should be handled wit sources, or sources of intense her Open containers slowly on a state contain residual amounts of this possible. 8. EXPOSURE CONT CHEMICAL NAME(S) ETHYL ACETATE BUTYL ACETATE TOSLAMIDE/EPOXY RESIN SILICA BUTYL ALCOHOL PROPYLENE GLYCOL When working with large quantities that an eyewash station, sink or we not special respiratory protection instances where vapors or sprays use only protection authorized Canadian CAS Standard Z94.4-States, or Australia. Wear protective eyewear (e.g., sa Always use protective eyewear we soft lenses may absorb and concern.	Empty th care. at. Store ble surfa roduct; th ROLS TLV 400 150 (10) NA NA NA es of prod vashbasin n is requ s of this by 29 C -93 and afety glas when clea	containe Store cor away fro ce. Kee erefore, & PE GIH STEL 400 200 NE NA 50 NA uct, provi is availa iried unc product a FFR §19 applicabl ses with ning spil itants.	r may containers in m incompa p containers empty con: RSON ES-TWA 200 150 NF NF 50 474 de adequable in case ler typical are genera 10.134, alle standard side-shield is or leaks	AL PF NOHSC ES- STEL 400 200 NF NF 152 NF te ventila e of expo- circums ted, and oplicable ds of Ca	idual amodry location terials (Seclosed withhould be had b	PEL NA 200 (10) NA 100	osha stel NA 200 NE NA NA NA NA naust ve handlin son is ne ations, EC m	IDLH 2000 1700 NE 3000 1400 NA ntilation, or the ember oduct. azard;	ontainers may OTHER 400 TWA 150 TWA RESP FRAC
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Special Considerations:

NA

13.2

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 4/12/2018 SDS Revision: 1.1 9. PHYSICAL & CHEMICAL PROPERTIES Appearance: Clear liquid 9 1 9.2 Odor: Slight 9.3 Odor Threshold: NA 94 pH: NA 9.5 Melting Point/Freezing Point: NA Initial Boiling Point/Boiling 9.6 NA Range - 4 °C (24.8 °F) estimated 97 Flashpoint: Upper/Lower Flammability 9.8 NA Limits: 9.9 Vapor Pressure: NA NA 9.10 Vapor Density: 9.11 Relative Density: NA 9.12 Solubility: NA 9.13 Partition Coefficient (log Pow): NA 9 14 **Autoignition Temperature** NA 9.15 Decomposition Temperature: NA NA 9.16 Viscosity: Other Information: NA 9.17 10. STABILITY & REACTIVITY Stable under ambient conditions when stored properly (see Section 7, Storage and Handling). 10.1 Stability: If exposed to extremely high temperatures, the products of thermal decomposition may include irritating vapors and 10.2 Hazardous Decomposition Products: carbon oxide gases (e.g., CO, CO₂). May occur, if exposed to extremely high temperatures. 10.3 Hazardous Polymerization: Exposure or contact to extreme temperatures, incompatible chemicals, strong light sources, sparks, flame. Conditions to Avoid: 10.4 Incompatible Substances This product is incompatible with strong oxidizers (e.g., peroxides, superoxides), strong acids (e.g., hydrochloric or 10.5 muriatic acids), or strong bases (e.g., lye, potassium hydroxide). 11. TOXICOLOGICAL INFORMATION Inhalation: NO 11.1 Routes of Entry Absorption: YES Ingestion: YES This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is Toxicity Data: 11.2 available for some of the components of the product and is presented below: Ethyl Acetate: LD_{50} (oral, rat) = 5,620 mg/kg; LD_{50} (oral, mouse) = 4,100 mg/kg; LC_{50} (inh-6h, rat) = 16,000 ppm See Section 4.4 11.3 Acute Toxicity: 11.4 Chronic Toxicity: See Section 4.5 Suspected Carcinogen This product contains Ethyl Acetate) which are not carcinogenic to humans, but are listed as Group 3 carcinogens by the 11.5 IARC 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 This product is not reported to produce teratogenic effects in humans. Teratogenicity: Reproductive Toxicity: This product is not reported to produce reproductive effects in humans 11.7 Irritancy of Product: See Section 4.2 11.8 Biological Exposure Indices: NE 11.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION The components of this product will slowly degrade over time into a variety of organic compounds. Environmental Stability: 12.1 environmental data available for the components of this product are as follows: Ethyl Acetate: Koc = 0.73. Water solubility: 64,000 mg/l. Bioconcentration Factor = 4-14. Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environments from volatilization, and biodegradation. This compound's half-life in water is 6.1 hours. Butyl Acetate: Koc = 1.82. Water solubility: 120 parts H₂O at 25°C (77°F). Bioconcentration Factor = 4-14. Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environments from volatilization, and biodegradation. This compound's half-life in water is 6.1 hours. 12.2 Effects on Plants & Animals: There are no specific data available for this product. Effects on Aquatic Life: There are no specific data available for this product. 12.3 13. DISPOSAL CONSIDERATIONS Dispose of in accordance with Federal, state and local regulations. 13.1 Waste Disposal:

$0.6 \cdot 1$

Other Requirements:

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 1.1 SDS Revision Date: 4/12/2018 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. 49 CFR (GND): UN1263, PAINT, 3, II, (LTD QTY, IP VOL ≤ 1.0 L); or CONSUMER COMMODITY, ORM-D - until 01/01/2021 IATA (AIR): UN1263, PAINT, 3, II, (LTD QTY, IP VOL ≤ 0.5 L); or ID8000, CONSUMER COMMODITY, 9 (IP VOL ≤ 0.5 L) IMDG (OCN): 14.3 UN1263, PAINT, 3, II, (LTD QTY, IP VOL ≤ 1.0 L) TDGR (Canadian GND): 14.4 UN1263, PAINT, 3, II, (LTD QTY, IP VOL ≤ 1.0 L) 14.5 ADR/RID (EU): UN1263, PAINT, 3, II, (LTD QTY, IP VOL ≤ 1.0 L) 14.6 SCT (MEXICO): UN1263, PINTURA, 3, II, (CANT. LTDA., IP VOL ≤ 1.0 L) ADGR (AUS): 14.7 UN1263, PAINT, 3, II, (LTD QTY, IP VOL ≤ 1.0 L) 15. REGULATORY INFORMATION SARA Reporting 15.1 This product contains Ethyl Acetate, a substance that is subject to SARA Title III Section 304 reporting. Requirements 15.2 SARA TPQ: There are no specific Threshold Planning Quantities for the components of this product. The components of this product are listed on the TSCA Inventory or are otherwise exempt. 15.3 TSCA Inventory Status: 15.4 CERCLA Reportable Butyl Acetate: 2,270 kg (5,000 lbs); Ethyl Acetate: 2,270 kg (5,000 lbs) 15.5 Other Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics) Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the Safety Data 15.6 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. WHMIS B2, D2B (Flammable Liquid, Other Toxic Effects) 15.7 State Regulatory Information: Butyl Acetate is found on the following state criteria lists: California OSHA Hazardous Substances List (CA). Delaware Air Quality Management List (DE), Massachusetts Hazardous Substances List (MA), New Jersey Right-to-Know List (NJ), New York List of Hazardous Substances (NY), Pennsylvania Right-to-Know List (PA), and Washington Permissible Exposures List for Air Contaminants (WA), Wisconsin Hazardous Substances List (WI). Ethyl Acetate is found on the following state criteria lists: CA, DE, MA, MN, NJ, NY, PA, and WA. None of the ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following

Substances List (WI).

harm. For more information, go to www.P65warnings.ca.gov.

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

This product does not contain any chemicals known to the State of California to cause cancer or other reproductive

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SDS Revision: 1.1

SDS Revision Date: 4/12/2018

	16. OTHER INFORMATION						
16.1	Other Information:	FLAMMABLE LIQUID AND VAPOR. CAUSES SERIOUS EYE IRRITATION. CAUSES MILD SKIN IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. Use only as directed. Discontinue use if irritation develops. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Avoid breathing dust/fume/vapors. Use only outdoors or in a well-ventilated area. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. In case of fire: Use CO ₂ , Halon (if permitted), Dry Chemical, Foam, as authorized. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritations persist: Get medical advice. Attention. If skin irritation occurs: Get medical advice attention. Store in a well-ventilated place. Keep cool. KEEP OUT OF REACH OF CHILDREN.					
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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SDS Revision: 1.1

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.

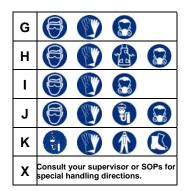
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С	T	型	
D	T	型	
Ε	T		
F	T	型	





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:

Minimal Hazard		FLAMMABILITY		
1	Slight Hazard			
2	Moderate Hazard	REACTIVITY		
3	Severe Hazard			
4	Extreme Hazard			
ACD	Acidic			
ALK	Alkaline			
COR	Corrosive	/ \ \ \ \		
₩	Use No Water	HEALTH		
ох	Oxidizer	SPECIAL		
TREFOIL	Radioactive	PRECAUTIONS		

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			
TL _m	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	IDSL Canadian Non-Domestic Substance List				
PSL	PSL Canadian Priority Substances List				
TSCA	TSCA U.S. Toxic Substance Control Act				
EU	EU European Union (European Union Directive 67/548/EEC)				
WGK	Wassergefährdungsklassen (German Water Hazard Class)				

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	(*)	(2)		\odot	(18)		
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