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

SDS Revision: 1.3

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1.1	Product Name:	OPI NAIL	LACQUE	ER										
1.2	Chemical Name:	Solvent Mixtur												
1.3	Synonyms:	OPI Nail Lacq	uers											
1.4	Trade Names:	All Colors; Bas	secoats; Topco	ats; and Treatr	ments (ex	cept str	rength	eners)						
1.5	Product Use:	Cosmetic Use	Only											
1.6	Distributor's Name:	OPI Products,	Inc.											
1.7	Distributor's Address:	4500 Park Gra	anada Blvd, Ca	labasas, CA 9'	1302 USA	1								
1.8	Emergency Phone:		C: +1 (703)	,			0300		N 161	277)				
1.9	Business Phone / Fax:	Tel: +1 (818) 9		521-50011	. 1 (000) 424	-3300		11 10.	511)				
				ZARDS I										
2.1	Hazard Identification:		s classified as			and a	s dang	gerous	goods	s acco	rding	to the	classi	fication criteria
			8 (2004)] and A					~ ~ ~ ~ ~ ~			-			
			GHLY FLAMM											
		DIZZINESS.		IN. WATC	AUSE K	ESPIRA	AIUK		IIAIN	JN. 1	IAI	CAUS		OWSINE33
			Flam. Liq. 2; S	kin Sens 1A·I	Eve Irrit 2			з						
2.2	Label Elements:		nents (H): H22						7 14	014 001	100.01		uio I	
2.2	Laber Liements.		H319 – Cause											
			drowsiness or c		mation.	пэээ –	- way o	Jause	espira	liory ii	ntatio	п. пэ.	50	
							+/			a /hat				
		Precautionary												
		Smoking. P2												
		static discharg												<u><u><u>s</u></u></u>
		skin areas tho												
		should not be												•
			302+P352 – IF											
		EYES: Rinse												
		- ob ot veed												
		easy to uo -	continue rinsir	ng. P333+P3′	13 — It sł	kin irrita	ation o	or a ra	sh oco	curs –	- Get	medic	al	
		advice/attentio	n. P321 – For	specific first a	id treatmo	ent (Se	e Sec	tion 4 d	of this	Safety	/ Data	Sheet	t).	<!--</b-->)
			n. P321 – For	specific first a	id treatmo	ent (Se	e Sec	tion 4 d	of this	Safety	/ Data	Sheet	t).	$\langle ! \rangle$
		advice/attentio	n. P321 – For contaminated	specific first a clothing before	iid treatme e reuse.	ent (Se P370+	e Sect P378	tion 4 c – In ca	of this ase of	Safety fire, (/ Data CO₂, H	a Sheei Halon	t). (if	\checkmark
		advice/attentio P363 – Wash permitted), dry	n. P321 – For contaminated / chemical, or	specific first a clothing before foam for extin	id treatme e reuse oction Pa	ent (Se P370+ 403+P2	e Sect P378 235 -	tion 4 c – In ca Store i	of this ase of in a w	Safety fire, (ell-ver	v Data CO₂, H ntilate	a Shee Halon d plac	t). (if œ.	\checkmark
		advice/attentio P363 – Wash	n. P321 – For contaminated chemical, or 2501 – Dispose	specific first a clothing before foam for extin	id treatme e reuse oction Pa	ent (Se P370+ 403+P2	e Sect P378 235 -	tion 4 c – In ca Store i	of this ase of in a w	Safety fire, (ell-ver	v Data CO₂, H ntilate	a Shee Halon d plac	t). (if œ.	\checkmark
2.3	Other Warnings:	advice/attentio P363 – Wash permitted), dry Keep cool. P facility (TSDF)	n. P321 – For contaminated chemical, or 501 – Dispose	specific first a clothing before foam for extin of contents/c	id treatme e reuse oction Pa	ent (Se P370+ 403+P2	e Sect P378 235 -	tion 4 c – In ca Store i	of this ase of in a w	Safety fire, (ell-ver	v Data CO₂, H ntilate	a Shee Halon d plac	t). (if œ.	
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	ICAL NAME(S) 'L ACETATE 'L ACETATE ROPYL ALCOHOL DCELLULOSE ALSO CONTAIN: RESIN, PL/ YL TRIBUTYL CITRATE ETHYLPENTANEDIYL	advice/attentio P363 – Wash permitted), dry Keep cool. P facility (TSDF) KEEP OUT OI 3. CO 3. CO CAS No. 141-78-6 Flam. Liq. 2; E 123-86-4 Flam. Liq. 2; S 67-63-0 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; H ASTICIZER, EXCI	n. P321 – For contaminated / chemical, or 501 – Dispose FREACH OF (MPOSITI MPOSITI MPOSITI AF7350000 rot sE 3; H226 NT8050000 rot sE 3; H226 NT8050000 225 PIENT NA	specific first a clothing befor foam for extin e of contents/c CHILDREN. ON & ING EINECS No. 205-500-4 SE 3; H225, H31 204-658-1 H336 200-661-7 it. 2A; STOT SE NA 201-067-0	id treatme e reuse. iction. Proceedings container REDII % 15-40 9, H336 15-40 9, H336 15-40 5.0-10 5.0-10 5.0-10	ent (Se P370+ 403+P2 to a lic ENT Acc PPP TLV 400 150 150	e Sect P378 235 – censec INF m stel 400 200 500 119 400	ES- TWA 200 400	bof this ase of in a woment, and woment, a	Safety fire, (ell-ver storag ON SURE LI SURE LI SURE LI NF NF	P Data CO ₂ , H tilate le or P <u>PEL</u> NA 200 400 NA	N AIR (m OSHA Ppm STEL NA 200 500	t). (if e. al iDLH 2000 1700 2000	400 TWA 100 NIOSH 400 TWA
HEM THY UTY SOP IITRO CET RIM DIBEI	ICAL NAME(S) 1 ACETATE 1 ACETATE ROPYL ALCOHOL DCELLULOSE ALSO CONTAIN: RESIN, PL/ YL TRIBUTYL CITRATE ETHYLPENTANEDIYL NZOATE	advice/attentio P363 – Wash permitted), dry Keep cool. P facility (TSDF) KEEP OUT OI 3. CO 2. 2007 CAS No. 141-78-6 Flam. Liq. 2; E 123-86-4 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; H ASTICIZER, EXCI 77-90-7 Flam. Gas 1; M 68052-23-3	n. P321 – For contaminated / chemical, or 501 – Dispose FREACH OF (MPOSITI MPOSITI AF7350000 ye Irrit. 2; STOT: AF7350000 ye Irrit. 2; STOT: AF7350000 toT SE 3; H226 NT8050000 kin Irrit. 3; Eye Irri QW0970000 225 PIENT NA Auta. 1B; Carc. 11 NA	Specific first a clothing befor foam for extin e of contents/c CHILDREN. ON & ING 205-500-4 SE 3; H225, H31 204-658-1 H336 200-661-7 it. 2A; STOT SE NA 201-067-0 B; H220, H340, H 268-316-3	id treatme e reuse. iction. Pr container REDII % 15-40 9, H336 15-40 9, H336 15-40 5.0-10 3; H225, H 5.0-10 35.0-10	ent (Se P370+ 403+P2 to a lic ENT ACC PPI TLV 400 150 150 400 316, H3 400 NA	e Sect P378 235 – censec INF 31H m 31H 400 200 500 500 500 119 400 800 800 800 800 800 800 800 800 800	ES- TWA 200 150 400 NF	IATII EXPOS NR	Safety fire, (ell-ver storag ON URE LI ES- PEAK NF NF NF NF	r Data CO ₂ , H thilate e or r MITS IN NA 200 400 NA NA NA	N AIR (m OSHA OSHA PPM STEL NA 200 500 NA NA	t). (if e. al g/m ³) iDLH 2000 2000 2000 2000 NA NA	400 TWA 100 NIOSH 400 TWA
HEM THY UTY SOP IITRO CET RIM DIBEI	ICAL NAME(S) 1 ACETATE 1 ACETATE ROPYL ALCOHOL DCELLULOSE ALSO CONTAIN: RESIN, PL/ YL TRIBUTYL CITRATE ETHYLPENTANEDIYL	advice/attentio P363 – Wash permitted), dry Keep cool. P facility (TSDF) KEEP OUT OI 3. CO CAS No. 141-78-6 Flam. Liq. 2; E 123-86-4 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; H ASTICIZER, EXCI	n. P321 – For contaminated / chemical, or 501 – Dispose FREACH OF (MPOSITI MPOSITI AF7350000 ve Irrit. 2; STOT: AF7350000 ve Irrit. 2; STOT: AF7350000 vin Irrit. 3; Eye Irri QW0970000 z25 PIENT NA Auta. 1B; Carc. 11	specific first a clothing befor foam for extin e of contents/c CHILDREN. ON & ING EINECS No. 205-500-4 SE 3; H225, H31 204-658-1 H336 200-661-7 it. 2A; STOT SE NA 201-067-0 B; H220, H340, F	id treatme e reuse. iction. Pr container REDII % 15-40 9, H336 15-40 9, H336 15-40 5.0-10 3; H225, H 5.0-10 5.0-10 1350	ent (Se P370+ 403+P2 to a lic ENT ACC PP TLV 400 150 150 316, H3 400	e Sect P378 235 – censec INF 31H m 31H 400 200 500 500 119 400	ES- TWA 200 NF	ATTIC ACCOMPTONES	Safety fire, (ell-ver storag ON SURE LI ES- PEAK NF NF NF	P Data CO ₂ , H thilate e or P MITS IN NA 200 400 NA	N AIR (m OSHA Ppm STEL NA 2000 500 NA	t). (if e. al iDLH 2000 1700 2000	400 TWA 100 NIOSH 400 TWA
HEM THY SUTY SOP IITRO I	ICAL NAME(S) L ACETATE L ACETATE ROPYL ALCOHOL DCELLULOSE ALSO CONTAIN: RESIN, PL/ YL TRIBUTYL CITRATE ETHYLPENTANEDIYL NZOATE LAMIDE EPOXY RESIN ETHYL PENTANYL	advice/attentio P363 – Wash permitted), dry Keep cool. P facility (TSDF) KEEP OUT OI 3. CO 2. 2007 CAS No. 141-78-6 Flam. Liq. 2; E 123-86-4 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; H ASTICIZER, EXCI 77-90-7 Flam. Gas 1; M 68052-23-3	n. P321 – For contaminated / chemical, or 501 – Dispose FREACH OF (MPOSITI MPOSITI AF7350000 ye Irrit. 2; STOT: AF7350000 ye Irrit. 2; STOT: AF7350000 toT SE 3; H226 NT8050000 kin Irrit. 3; Eye Irri QW0970000 225 PIENT NA Auta. 1B; Carc. 11 NA	Specific first a clothing befor foam for extin e of contents/c CHILDREN. ON & ING 205-500-4 SE 3; H225, H31 204-658-1 H336 200-661-7 it. 2A; STOT SE NA 201-067-0 B; H220, H340, H 268-316-3	id treatme e reuse. iction. Pr container REDII % 15-40 9, H336 15-40 9, H336 15-40 5.0-10 3; H225, H 5.0-10 35.0-10	ent (Se P370+ 403+P2 to a lic ENT ACC PPI TLV 400 150 150 400 316, H3 400 NA	e Sect P378 235 – censec INF 31H m 31H 400 200 500 500 500 119 400 800 800 800 800 800 800 800 800 800	ES- TWA 200 150 400 NF	IATII EXPOS NR	Safety fire, (ell-ver storag ON URE LI ES- PEAK NF NF NF NF	r Data CO ₂ , H thilate e or r MITS IN NA 200 400 NA NA NA	N AIR (m OSHA OSHA PPM STEL NA 200 500 NA NA	t). (if e. al g/m ³) iDLH 2000 2000 2000 2000 NA NA	400 TWA 100 NIOSH 400 TWA
HEM THY UTY SOP IITR CET RIM IBEI OSY RIM	ICAL NAME(S) 1 ACETATE 1 ACETATE ROPYL ALCOHOL DCELLULOSE ALSO CONTAIN: RESIN, PLA YL TRIBUTYL CITRATE ETHYLPENTANEDIYL NZOATE 1 AMIDE EPOXY RESIN ETHYL PENTANYL DBUTYRATE	advice/attentio P363 – Wash permitted), dry Keep cool. P facility (TSDF) KEEP OUT OI 3. CO 2. 2007 CAS No. 141-78-6 Flam. Liq. 2; E 123-86-4 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; H STICIZER, EXCI 77-90-7 Flam. Gas 1; M 68052-23-3 25035-71-6	n. P321 – For contaminated / chemical, or 2501 – Dispose FREACH OF (MPOSITI MPOSITI MPOSITI AF7350000 ye Irrit. 2; STOT AF7350000 ve Irrit. 2; STOT TOT SE 3; H226 NT8050000 kin Irrit. 3; Eye Irr QW0970000 225 PIENT NA Muta. 1B; Carc. 11 NA	specific first a clothing befor foam for extin foam for extin contents/c CHILDREN. ON & ING 205-500-4 SE 3; H225, H31 204-658-1 H336 200-661-7 ct. 2A; STOT SE NA 201-067-0 B; H220, H340, F 268-316-3 NA	id treatme e reuse. iction. P- container REDII 9, H336 15-40 9, H336 15-40 5.0-10 3; H225, H 5.0-10 3; 5.0-10 5.0-10	ent (Se P370+ 403+P2 to a lic ENT ACC PPI TLV 400 150 400 1316, H3 400 NA NA	e Sect P378 235 – censec INF(31H m stel 400 200 500 319 400 500 319 400	ES- TWA 200 150 400 NF NF	A Constraints of this is ase of in a woment, is ase of in a woment, is ase of in a woment, is ase of the second se	Safety fire, (ell-ver storag ON SURE LI ES- PEAK NF NF NF NF NF	P Data CO ₂ , H thilate e or m MITS IN NA 200 A00 NA NA NA NA	A Sheet Halon d plac dispos OSHA ppm STEL NA 200 500 NA NA NA	t). (if e. al g/m ³) iDLH 2000 2000 2000 2000 NA NA NA	400 TWA 100 NIOSH 400 TWA
HEM THY SOP UITR SOP UITR COSP RIM DIBEI COSY RIM DIISC RIPH	ICAL NAME(S) 1 ACETATE 1 ACETATE ROPYL ALCOHOL DCELLULOSE ALSO CONTAIN: RESIN, PL/ YL TRIBUTYL CITRATE ETHYLPENTANEDIYL NZOATE 1 AMIDE EPOXY RESIN ETHYL PENTANYL DBUTYRATE HENYL PHOSPHATE	advice/attentio P363 – Wash permitted), dry Keep cool. P facility (TSDF) KEEP OUT OI 3. CO (AS No. 141-78-6 Flam. Liq. 2; E 123-86-4 Flam. Liq. 2; S 67-63-0 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; H ASTICIZER, EXCI 77-90-7 Flam. Gas 1; M 68052-23-3 25035-71-6 6846-50-0 115-86-6 Acute Aq. Tox.	n. P321 – For contaminated / chemical, or 501 – Dispose FREACH OF (MPOSITI MPOSITI MPOSITI ///////////////////////////////////	specific first a clothing befor foam for extin e of contents/c CHILDREN. ON & ING 205-500-4 SE 3; H225, H31 205-500-4 SE 3; H225, H31 204-658-1 H336 200-661-7 it. 2A; STOT SE NA 201-067-0 B; H220, H340, H 268-316-3 NA 226-934-9 204-112-2 ox. 1; H400, H41	id treatme e reuse. iction. Proceedings container REDII 3 , H225, H 5.0-10 5.0-10 5.0-10 5.0-10 5.0-10 5.0-10 5.0-10	ent (Se P370+ 403+P2 to a lic ENT Acc PPP TLV 400 150 150 150 150 150 150 150 150 100 10	e Sect P378 235 – censec INF 400 200 500 119 400 NA NA NA NA NA	ES- TWA 200 150 400 150 NF NF NF NF	NF NF	Safety fire, (ell-ver storag ON SURE LI STORAG NF NF NF NF NF NF NF	P Data CO ₂ , H tilate le or v MITS II NA 200 400 NA NA NA NA NA	AlR (m osha ppm stel NA NA NA NA	t). (if e. al iDLH 2000 2000 2000 2000 NA NA NA	400 TWA 100 NIOSH 400 TWA
HEM THY UTY SOP IITR CET RIM DIBEI RIM DIBEI RIM DIBEI RIM DIBEI	ICAL NAME(S) IL ACETATE IL ACETATE ROPYL ALCOHOL DCELLULOSE ALSO CONTAIN: RESIN, PL/ YL TRIBUTYL CITRATE ETHYLPENTANEDIYL NZOATE ILAMIDE EPOXY RESIN ETHYL PENTANYL IBUTYRATE HENYL PHOSPHATE IC ACID / NEOPENTYL/	advice/attentio P363 – Wash permitted), dry Keep cool. P facility (TSDF) KEEP OUT OI 3. CO CAS No. 141-78-6 Flam. Liq. 2; Et 123-86-4 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; H ASTICIZER, EXCI 77-90-7 Flam. Gas 1; M 68052-23-3 25035-71-6 6846-50-0 115-86-6 Acute Aq. Tox. 28407-73-0	n. P321 – For contaminated / chemical, or 2501 – Dispose FREACH OF (MPOSITI MPOSITI MPOSITI ///////////////////////////////////	specific first a clothing befor foam for extin e of contents/c CHILDREN. ON & ING EINECS No. 205-500-4 SE 3; H225, H31 204-658-1 200-661-7 it. 2A; STOT SE NA 201-067-0 B; H220, H340, H 268-316-3 NA 226-934-9 204-112-2	id treatme e reuse. iction. P- container REDII 3 , H2-50, H 5.0-10 3; H225, H 5.0-10 35.0-10 5.0-10 5.0-10 5.0-10 5.0-10	ent (Se P370+ 403+P2 to a lic ENT ACC PPP TLV 400 150 316, H3 400 NA NA NA NA	e Sect P378 235 – censec INF 31H m 31H 400 200 319 400 319 400 319 400 NA NA NA	ES- TWA 200 150 400 NF NF NF	NF NF	Safety fire, (ell-ver storag ON SURE LI ES- PEAK NF NF NF NF NF NF NF	P Data CO ₂ , H tilate le or v MITS IN PEL NA 200 400 NA NA NA NA	NAIR (m OSHA PPM STEL NA 2000 500 NA NA NA	t). (if e. al pg/m ³) iDLH 2000 1700 2000 2000 2000 NA NA NA	400 TWA 100 NIOSH 400 TWA
HEM THY UTY GOP IITR CET RIM IBE IOSY RIM IISC RIP IDIPI GLYC	ICAL NAME(S) IL ACETATE IL ACETATE ROPYL ALCOHOL DCELLULOSE ALSO CONTAIN: RESIN, PL YL TRIBUTYL CITRATE ETHYLPENTANEDIYL NZOATE ILAMIDE EPOXY RESIN ETHYL PENTANYL DBUTYRATE HENYL PHOSPHATE IC ACID / NEOPENTYL/ COL / TRIMELLTIC ANHYDRIE	advice/attentio P363 – Wash permitted), dry Keep cool. P facility (TSDF) KEEP OUT OI 3. CO CAS No. 141-78-6 Flam. Liq. 2; Et 123-86-4 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; H ASTICIZER, EXCI 77-90-7 Flam. Gas 1; M 68052-23-3 25035-71-6 6846-50-0 115-86-6 Acute Aq. Tox. 28407-73-0	n. P321 – For contaminated / chemical, or /501 – Dispose FREACH OF () MPOSITI MPOSITI ///////////////////////////////////	specific first a clothing befor foam for extin e of contents/c CHILDREN. ON & ING EINECS No. 205-500-4 SE 3; H225, H31 204-658-1 H336 200-661-7 it. 2A; STOT SE NA 201-067-0 B; H220, H340, H 268-316-3 NA 226-934-9 204-112-2 ox. 1; H400, H41	id treatme e reuse. iction. Proceedings container REDII 3 , H225, H 5.0-10 5.0-10 5.0-10 5.0-10 5.0-10 5.0-10 5.0-10	ent (Se P370+ 403+P2 to a lic ENT Acc PPP TLV 400 150 150 150 150 150 150 150 150 100 10	e Sect P378 235 – censec INF 400 200 500 119 400 NA NA NA NA NA	ES- TWA 200 150 400 150 NF NF NF NF	NF NF	Safety fire, (ell-ver storag ON SURE LI STORAG NF NF NF NF NF NF NF	P Data CO ₂ , H tilate le or v MITS II NA 200 400 NA NA NA NA NA	AlR (m osha ppm stel NA NA NA NA	t). (if e. al iDLH 2000 2000 2000 2000 NA NA NA	400 TWA 100 NIOSH 400 TWA
HEM THY UTY SOP ITRO CET RIM IBEI OSY RIM IISC RIPH DIPI LYCO	ICAL NAME(S) IL ACETATE IL ACETATE ROPYL ALCOHOL DCELLULOSE ALSO CONTAIN: RESIN, PL/ YL TRIBUTYL CITRATE ETHYLPENTANEDIYL NZOATE ILAMIDE EPOXY RESIN ETHYL PENTANYL IBUTYRATE HENYL PHOSPHATE IC ACID / NEOPENTYL/	advice/attentio P363 – Wash permitted), dry Keep cool. P facility (TSDF) KEEP OUT OI 3. CO <u>CAS No.</u> 141-78-6 Flam. Liq. 2; E 123-86-4 Flam. Liq. 2; E 123-86-4 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; S 9004-70-0 Flam. Liq. 2; S 2004-70-0 Flam. Cas 1; M 68052-23-3 25035-71-6 6846-50-0 115-86-6 Acute Aq. Tox. 28407-73-0	n. P321 – For contaminated / chemical, or /501 – Dispose FREACH OF () MPOSITI MPOSITI ///////////////////////////////////	specific first a clothing befor foam for extin e of contents/c CHILDREN. ON & ING EINECS No. 205-500-4 SE 3; H225, H31 204-658-1 H336 200-661-7 it. 2A; STOT SE NA 201-067-0 B; H220, H340, H 268-316-3 NA 226-934-9 204-112-2 ox. 1; H400, H41	id treatme e reuse. iction. Proceedings container REDII 3 , H225, H 5.0-10 5.0-10 5.0-10 5.0-10 5.0-10 5.0-10 5.0-10	ent (Se P370+ 403+P2 to a lic ENT Acc PPP TLV 400 150 150 150 150 150 150 150 150 100 10	e Sect P378 235 – censec INF 400 200 500 119 400 NA NA NA NA NA	ES- TWA 200 150 400 150 NF NF NF NF	NF NF	Safety fire, (ell-ver storag ON SURE LI STORAG NF NF NF NF NF NF NF	P Data CO ₂ , H tilate le or v MITS II NA 200 400 NA NA NA NA NA	AlR (m osha ppm stel NA NA NA NA	t). (if e. al iDLH 2000 2000 2000 2000 NA NA NA	400 TWA 100 NIOSH 400 TWA

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Prepared to OSHA, ACC, ANSI, NOF							Revisior					n Date:	4/12/2018
3.	COMP	DSITION	& INGRE	DIENT	INF	ORN	IATI						
										MITS IN	I AIR (m	g/m³)	1
						GIH		NOHSC			OSHA		
					pt	om I		ppm			ppm	1	
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
	25035-716	QW0970000	NA	5.0-10	NA	NA	NF	NF	NF	NA	NA	NA	
RESIN	20000 / 10	QW0070000		0.0 10	1.0/1					11/1	1.17	11/1	
MAY ALSO CONTAIN:	1												
	1077-56-1	NA	214-073-3	5.0-10	NA	NA	NF	NF	NF	NA	NA	NA	
ETHYL TOSYLAMIDE		1	1		1								1
	71-36-3	EO1400000	200-751-6	5.0-10	NA	50	50	152	50	100	NA	1400	
I-BUTYL ALCOHOL	Flam. Liq. 3; A	cute Tox. 4; Skin	Irrit. 2; Eye Dan	n. 1; STOT	SE 3; H	1226, H	302, H3	15, H3 ⁻	18, H33	5, H33	6		
	64-17-5	KQ6300000	200-578-6	5.0-10	1000	1900	1880	NF	NF	1000	1900	3300	
ETHANOL (SB ALCOHOL 40-B)	Flam. Liq. 2; H	1225											
SUCROSE ACETATE	126-13-6	WN6550000	204-771-6	5.0-10	NA	NA	NF	NF	NF	NA	NA	NA	
SOBUTYRATE													
HEPTANE	142-82-5	MI7700000	205-563-8	5.0-10	400	500	400	1640	NF	500	NA	750	
IEFTANE	Flam. Liq. 2; S	kin Irrit. 2; STOT	-SE 3; Asp. 1; A	cute Aq. To	x. 1; Ch	ronic A	q. Tox.	2; H22	5, H304	, H315	, H336,	H410	-
CELLULOSE ACETATE BUTYRATE	9004-36-8	NA	NA	5.0-10	NA	NA	NF	NF	NF	NA	NA	NA	
LECCOL AGETATE BUT IRATE			1	_							-		
ADIPIC ACID/ISOPHTHALIC	25950-34-9	NA	NA	5.0-10	NA	NA	NF	NF	NF	NA	NA	NA	
GLYCOL/TRIMETHYLOL PROPANE													
PHTHALIC	NA	NA	NA	5.0-10	NA	NA	NF	NF	NF	NA	NA	NA	
ANHYDRIDE/TRIMELLITIC		1.00	1.0.1	0.0 10	1.07	1.01				- 17	1 117		
ANHYDRIDE/GLYCOLS													
COPOLYMER											-		
CAMPHOR	76-22-22	EX1225000	200-945-0	0.0- 3.0	2	4	2	12	NF	NA	NA	200	
		Acute Tox. 4; Skir			SE 3; F	1228, H	302, H3	15, H3					
DI-HEMA TRIMETHYLHEXYL	41137-60-4	NA	276-957-5	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
DICARBAMATE													
ETHYL TRIMETHYLBENZOYL	NA	NA	NA	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
PHENYLPHOSPHINATE													
MAY ALSO CONTAIN:		1	1	_									
CI 77891 (TITANIUM DIOXIDE)	13463-67-7	XR2275000	236-675-5	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
		1		_	1								
CI 19140 (YELLOW 5)	1934-21-0	CB7700000	201-353-5	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
		I	- I	T									1
CI 77120 (BARIUM SULFATE)	7727-43-7	CR0600000	231-784-4	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
		I			1								1
CI 15850 (RED 6)	5858-81-1	NA	215-111-1	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
			1	1	1						1		
MICA	12001-26-2	VV8760000	310-127-6	0.0-1.0	NA	NA	(2.5)	NF	NF	30	NA	NA	RESP FRAC
					1								1
CI 15850 (RED 7)	5281-04-9	UQ6400000	217-699-5	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
()			<u> </u>	1									1
CI 77491 (IRON OXIDES)	1309-37-1	UD3422500	248-666-3	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
- , ,	1000 07 -		004 -04 -	0.0.1.7				N 1977					
CI 77499 (IRON OXIDES)	1309-37-9	NA	231-791-2	0.0-1.0	NE	NE	NF	NF	NF	NE	NE	NE	
, ,	4 40 00 10 -	.	045 075 -	0.0.1.5				N 100	N 1997				1
CI 77510 (FERRIC	14038-43-5	NA	215-277-5	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
ERROCYANIDE)		I											1
POLYVINYL BUTYRAL	63148-65-2	TR49550000	NA	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
			- I	T								1	1
STYRENE / ACRYLATES	25133-97-5	NA	NA	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
COPOLYMER		/e Irrit. 2; Aq. Chr											1
IN OXIDE	18282-10-5	XQ400000	242-159-0	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
	STOT SE 3; H						· ·	N 100	A 1977				1
CI 15880 (RED 34)	6417-83-0	NA	229-142-3	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
/	1000.00.1		045 000 -	0.0.1.7	0			N 1977		C -			
CI 77266 (BLACK 2)	1333-86-4	FF5800000	215-609-9	0.0-1.0	3.5	NA	3	NF	NF	3.5	NA	NA	
													1
CI 77000 (ALUMINUM POWDER)	7429-90-5	CR0600000	231-784-4	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
			NA	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
OLYETHYLENE TEREPHTHALATF	25038-59-9	NA	INA	0.0-1.0	INA								
POLYETHYLENE TEREPHTHALATE													
POLYETHYLENE TEREPHTHALATE	25038-59-9 25133-97-5	NA	NA	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	

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SDS Revision: 1.3

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CHEMPERAL MARGER: CAR No. RECEX No. Settic Status PPP PPP PPP PPP						ACGIH						,	
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PHOSPHORIC ACID 7004-382 TTCS000000 221-633-2 0.0-10 NA NA NF NF NR NA NA <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NF</td> <td>NF</td> <td>NA</td> <td>NA N</td> <td>A</td> <td></td>								NF	NF	NA	NA N	A	
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2142000 (BLUE 1) 3844.45-9 BQ4725000 223-339-8 0.0-10 NA NA </td <td>PHOSPHORIC ACID</td> <td></td> <td></td> <td>231-633-2</td> <td>0.0-1.0</td> <td>NA NA</td> <td> NF</td> <td> NF</td> <td>NF</td> <td>NA</td> <td>NAN</td> <td>A </td> <td></td>	PHOSPHORIC ACID			231-633-2	0.0-1.0	NA NA	NF	NF	NF	NA	NAN	A	
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217763 (BISMUTH XXCHCARDE) 778759-9 NO740000 215168.2 0.0.1 NA NA NF NF NA NA NA XXCHCARDE) 56997.17.3 NA 266046.0 0.0.1.0 NA NA NF NF NA NA NA 2177742 (MARAARESE VIOLET) 1010-66-3 NA 233-2574 0.0-1.0 NA NA NF NF NA NA NA 2177742 (MARAARESE VIOLET) 740-224 /W3500000 231-131-3 0.0-1.0 NA NA NA NA NA NA NA 217707 (ULTRAMARINES) 392-83-6 NA 215-111-1 0.0-1.0 NA		12003-38-2	NA	234-426-5	0.0-1.0	NA NA	NF	NF	NF	NA	NA N	A	
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Cl 77820 (SILVER) 7440-22-4 [W3500000 231-131-3 0.0-1.0 NA NA NF NF NA NA NA NA Cl 77807 (ULTRAMARINES) 1302-83-6 NA		10101-66-3	NA	233-257-4	0.0-1.0	NA NA	NF	NF	NF	NA	NA N	A	
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14 //006 (YELLOW 10) 21645-51-2 NA 244-492-7 0.0-1.0 NA NA NF NF NF NA NA NA ALUMINUM HYDROXIDE 21645-51-2 NA 236-747-6 0.0-1.0 NA NA NF NF NF NA NA NA CI 45410 (RED 28) 13473-26-2 NA 236-747-6 0.0-1.0 NA NA NF NF NF NA NA NA POLYBUTYLENE TEREPHTHALATE 26062-94-2 NA NA NA 0.0-1.0 NA	SILICATE												
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards

SDS Revision: 1.3

SDS Revision Date: 4/12/2018

								EXPO	SURE L	IMITS IN	AIR (m	g/m³)	
]				AC	GIH		NOHSC			OSHA		
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	pp	m		ppm			ppm		OTHER
MAY ALSO CONTAIN:													
CI 60730 (EXT. VIOLET 2)	4430-18-6	NA	224-618-7	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77400 (COPPER POWDER)	7440-50-8	GL5325000	231-159-6	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77492 (IRON OXIDES - YELLOW)	51274-00-1	NA	257-098-5	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
CI 261000 (RED 17)	85-86-9	QK4250000	201-638-4	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
POLYETHYLENE	9002-88-4	TQ3325000	NA	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
POLYMETHYL/PHENYLSILSESQUI OXANE SILICATE	NA	NA	NA	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
TALC	14807-96-6	WW2710000	238-877-9	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
IRON POWDER	7439-89-6	NA	231-096-4	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
CI 75170 (GUANINE)	73-40-5 Skin Irrit. 2. E	NA ye Irrit. 2, STOT S	200-799-8 SE 3: H315. H3	0.0-1.0 19. H335	NA	NA	NF	NF	NF	NA	NA	NA	
CI 75470 (CARMINE)	1390-65-4	FH8891000	215-724-4	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77288 (GREEN)	1308-38-9	GB6475000	215-160-9	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
PLATINUM POWDER	7440-06-4	TP2160000	231-116-1	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
CI 17200 (RED 33)	3567-66-6	NA	222-656-9	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
CI 45350 (YELLOW 8)	518-47-8	NA	208-253-0	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
CI 15985 (YELLOW 6)	2783-94-0	ZF6680000	220-491-7	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
LUMINESCENT ZINC SULFIDE	13-14-98-3	NA	215-251-3	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
CI 12085 (RED 36)	2814-77-9	NA	220-562-2	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
CI 45380 (RED 22)	17372-87-1	NA	241-409-6	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
CI 73360 (RED 30)	2379-74-0	VV8760000	310-127-6	0.0-1.0	NA	NA	(2.5)	NF	NF	30	NA	NA	RESP FRAC
CI 77289	1308-14-1	NA	215-158-8	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA	

4. FIRST AID MEASURES

4.1	First Aid:	Ingestion:	If ingested, do not induce vomiting. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed.
		<u>Eyes</u> :	Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.
		<u>Skin</u> :	If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.
		Inhalation:	Remove victim to fresh air at once.
4.2	Effects of Exposure:	Ingestion:	If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression.
		Eyes:	Irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering.
		<u>Skin</u> :	May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact.
		Inhalation:	Vapors of this product may be slightly irritating to the nose, throat and other tissues of the respiratory system. Symptoms of overexposure can include coughing, wheezing, nasal congestion, and difficulty breathing. Inhalation of vapors exceeding the levels listed in Section 3 (Composition and Ingredient Information) can cause central nervous system depression (e.g., drowsiness, dizziness, headaches, nausea).

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Prepa	ared to OSHA, ACC, ANSI, N	OHSC, WHMIS, GHS & 1272/2008/EC Standards	SDS Revisio	n: 1.3	SDS Revis	ion Date: 4/12	/2018
		4. FIRST AID MEASU	RES – conť c				
4.3	Symptoms of Overexposure:	Symptoms of skin overexposure in individuals Overexposure in eyes may cause redness, itching a		ess, itchin	g, and irrita	ation of affe	ected area
4.4	Acute Health Effects:	Mild to moderate irritation to eyes and skin near af drowsiness, dizziness, headaches and nausea.	fected areas. Addit	ionally, hig	h concentrati	ons of vapor	rs can caus
4.5	Chronic Health Effects:	None known.					
4.6 4.7	Target Organs: Medical Conditions	Eyes, Skin, Respiratory System.	d'a contrar of the c				
+.7	Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions, and target organs (eyes, skin, and respiratory system).	disorders of the	HEALTH FLAMMA	BILITY		1
				PHYSIC		DS	0
					TIVE EQUI		B
				EYES	SKIN		
		5. FIREFIGHTING N	IEASURES				
		sparks & open flame. Keep container closed. This involved in a fire, this product will ignite readily and of this product are heavier than air and may trav leaking or open container. Fine mist or sprays r flashpoint. If involved in a fire, this product may of gases (e.g., CO, CO ₂ , NO ₄).	decompose to prod el to a source of io nay be flammable	uce carbon inition and at tempera	oxides. Vap flash back t tures below	oors to a the	
5.2	Extinguishing Methods:	CO ₂ , Halon (if permitted), Dry Chemical, Foam, as a	uthorized				
		and decompose to produce carbon oxides. Vapor travel to a source of ignition and flash back to a leak First responders should wear eye protection. Str protective equipment. Use a water spray or fog t effective in actually extinguishing a fire involving this <u>HazChem Code</u> : 3(Y)E <u>Hazard Identification Number</u> : 33	ting or open contain uctural firefighters o reduce or direct	er. must wear	SCBAs and	full	\checkmark
				50			
6.1	Spills:	6. ACCIDENTAL RELEA					
		Before cleaning any spill or leak, individuals inv Equipment. For <u>small spills</u> (e.g., < 1 gallon (3.8 L)) wear a Maximize ventilation (open doors and windows) a absorbent material and place into appropriate close local, state and federal regulations. Wash all affe soap. Remove any contaminated clothing and wash For <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), deny en material (e.g., sand or earth). Use ONLY non-spar recovery or disposal and solid diking material to sep promptly and wash affected skin areas with soap a sewers and open bodies of water.	appropriate persona and secure all sou ed container(s) for c cted areas and out n thoroughly before try to all unprotector king tools for recover parate containers for	al protectiv rces of igr lisposal. D side of con reuse. ed individua proper dis	e equipment nition. Remo ispose of pro tainer with p als. Dike an anup. Transf posal. Remo	(e.g., gogg ove spilled r operly in acco lenty of warn d contain sp er liquid to c ove contamin	les, gloves material wi ordance wi m water ar pill with ine ontainers f ated clothir
		7. HANDLING & STORAG	E INFORMA	ΓΙΟΝ			
7.1	Work & Hygiene Practices:	Avoid prolonged contact with the product. Avoid bro local exhaust ventilation, fans). After use, wash h smoke while handling product.	eathing vapors of th	is product.			
7.2	Storage & Handling:	Keep this material away from heat, sparks and oper closed tightly when not in use. Empty containe containers should be handled with care. Store cor sources, or sources of intense heat. Store away fro	r may contain residentainers in a cool, d	dual amoundual ry location,	nts of this p away from o	roduct; there	efore, emp
7.3	Special Precautions:	Open containers slowly on a stable surface. Kee contain residual amounts of this product; therefore,					ntainers m

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SAFETY DATA SHEET

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

SDS Revision: 1.3

3.1	Exposure Limits:		AC	GIH		NOHSC			OSHA		OTHER
	ppm (mg/m ³)				ES-	ES-	ES-				
		CHEMICAL NAME(S) ETHYL ACETATE	TLV 400	STEL 400	TWA	STEL	PEAK NF	PEL NA	STEL NA	1DLH 2000	400 TWA
		BUTYL ACETATE		200	200 150	400 200	NF	200	200	1700	400 TWA 100 NIOSH
		ISOPROPROPYL ALCOHOL	150 400	500	400	500	NF	400	500	2000	400 TWA
		NITROCELLULOSE	400	400	400	200	NF	400 NA	NA	2000	400 TWA
		N-BUTYL ALCOHOL	NA	50	50	152	50	100	NA	1400	400 1004
		ETHANOL (SB ALCOHOL 40-B)	1000	1900	1880	NF	NF	1000	1900	3300	
		HEPTANE	400	500	400	1640	NF	500	NA	750	
		CAMPHOR	2	4	2	12	NF	NA	NA	200	
		MICA	NA	NA	(2.5)	NF	NF	30	NA	NA	RESP FRAC
		CI 77266 (BLACK 2)	3.5	NA	3	NF	NF	3.5	NA	NA	
		CI 73360 (RED 30)	NA	NA	(2.5)	NF	NF	30	NA	NA	RESP FRAC
.2	Ventilation & Engineering Controls:	When working with large qua									t ventilation, far
		Ensure that an eyewash station	n, sink oi	r washba	sin is ava	ilable in	case of	exposure	e to eyes.		
.3	Respiratory Protection:	No special respiratory protect									
		instances where vapors or s									
		needed, use only protection at									
		the Canadian CAS Standard	Z94.4-	93 and	applicable	e stand	ards of	Canadia	an Provir	ices, EC	
3.4	Euo Drotastiani	member States, or Australia.				.	1 1 11	C	la a la la alla		
5.4	Eye Protection:	Wear protective eyewear (e.g. product. Always use protecti									
		special hazard; soft lenses ma					or leaks	. Conta	actiense	s pose a	9
.5	Hand Protection:						lf ont	ininatad	that pro	opgod 9	
5.5		AVOID SKIN CONTACT DU repeated skin contact will occ									(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
		industrial use. If necessary, r									
		Canada, of the EU member sta		.0. 001	A 20 ON	1 31510					
					-						
3.6	Body Protection:	AVOID SKIN CONTACT DI	IF TO	SENSITI	ZING PO	OTENTI	ΔΙ Η (wever	no spec	vial hody	
8.6	Body Protection:	AVOID SKIN CONTACT DI							no spececessary.		
.6	Body Protection:	AVOID SKIN CONTACT DI protection is required under appropriate standards of Cana	typical c	ircumstar	nces of i	use and	l handlin				
3.6	Body Protection:	protection is required under	typical c	ircumstar	nces of i	use and	l handlin				
9.6	Body Protection:	protection is required under appropriate standards of Cana	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
		protection is required under appropriate standards of Cana 9. PHYSICA	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
0.1	Appearance:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
9.1	Appearance: Odor:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
0.1 0.2 0.3	Appearance: Odor: Odor Threshold:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
0.1 0.2 0.3	Appearance: Odor: Odor Threshold: pH:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
0.1 0.2 0.3 0.4 0.5	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
9.1 9.2 9.3 9.4 9.5	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
9.1 9.2 9.3 9.4 9.5 9.6	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA NA	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
9.1 9.2 9.3 9.4 9.5 9.6 9.7	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA NA - 4 °C (24.8 °F) estimated	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA NA - 4 °C (24.8 °F) estimated NA	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA NA - 4 °C (24.8 °F) estimated NA NA	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 0.10	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA NA - 4 °C (24.8 °F) estimated NA NA NA NA NA NA	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 0.10 0.11	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA NA - 4 °C (24.8 °F) estimated NA NA	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
3.6 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 3.10	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA NA - 4 °C (24.8 °F) estimated NA NA NA NA NA NA	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 0.10 0.11	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA NA - 4 °C (24.8 °F) estimated NA NA NA NA ND ND ND	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 0.10 0.11 0.12 0.13	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA NA - 4 °C (24.8 °F) estimated NA NA NA ND ND ND Insoluble	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.10 0.11 0.12 0.13 0.14	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log P _{cw}):	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA NA - 4 °C (24.8 °F) estimated NA NA ND ND Insoluble ND	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 0.10 0.11 0.12 0.13 0.14 0.15	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log P _{cw}): Autoignition Temperature:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA - 4 °C (24.8 °F) estimated NA NA ND ND Insoluble ND NA	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.10 0.11 0.12 0.13 0.14 0.15 0.16	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Pressure: Vapor Pensity: Relative Density: Solubility: Partition Coefficient (log P _{ow}): Autoignition Temperature: Decomposition Temperature:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA - 4 °C (24.8 °F) estimated NA NA ND ND Insoluble ND ND ND 1,000 – 3,000 cPs	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.10 0.11 0.12 0.13 0.14 0.15 0.16	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Pressure: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log P _{ow}): Autoignition Temperature: Decomposition Temperature: Viscosity:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA - 4 °C (24.8 °F) estimated NA NA ND ND Insoluble ND NA ND ND ND Insoluble ND NA ND	typical c da, the E	ircumstar EU memb	nces of i er states	use and , or U.S.	I handlin OSHA.	g. If ne			
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.10 0.11 0.12 0.13 0.14 0.15 0.16	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Pressure: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log P _{ow}): Autoignition Temperature: Decomposition Temperature: Viscosity:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA - 4 °C (24.8 °F) estimated NA NA ND ND Insoluble ND ND ND Insoluble ND NA ND NA NA NA	typical c da, the E	ircumstar U memb	CAL F	PROF	PERTI	g. If ne			
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 0.10 0.11 0.12 0.13 0.14 0.15 0.16 0.17	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Relative Density: Solubility: Partition Coefficient (log P _{ow}): Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA NA - 4 °C (24.8 °F) estimated NA NA NA ND Insoluble ND ND Insoluble ND NA ND 1,000 – 3,000 cPs NA 10. ST	typical c da, the E L & C	ircumstar Umemb HEMI	CAL F	PROF	I handlin OSHA. PERTII	g. If ne	ecessary,		
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.99 0.10 0.11 0.12 0.13 0.14 0.15 0.16 0.17 10.1	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Relative Density: Solubility: Partition Coefficient (log P _{ow}): Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA - 4 °C (24.8 °F) estimated NA ND Insoluble ND 1,000 – 3,000 cPs NA 10. ST Stable under ambient condition	TABIL ns when	ITY &	CAL F	PROF	TY on 7, Stc	g. If ne	d Handlin	g).	
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 0.10 0.11 0.12 0.13 0.14 0.15 0.16 0.17	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log P _{ow}): Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information: Stability: Hazardous Decomposition	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA - 4 °C (24.8 °F) estimated NA ND Insoluble ND 1,000 – 3,000 cPs NA 10. ST Stable under ambient condition If exposed to extremely high	TABIL Is when tempera	ITY &	CAL F	PROF	TY on 7, Stc	g. If ne	d Handlin	g).	ritating vapors a
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 0.10 0.11 0.12 0.13 0.14 0.15 0.16 0.17	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information: Stability: Hazardous Decomposition Products:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA - 4 °C (24.8 °F) estimated NA ND Insoluble ND 1,000 – 3,000 cPs NA 10. ST Stable under ambient condition	TABIL Is when tempera	ITY &	CAL F	PROF	TY on 7, Stc	g. If ne	d Handlin	g).	ritating vapors a
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.10 0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.12 0.11 0.12 0.11 0.2	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log P _{ow}): Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information: Stability: Hazardous Decomposition	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA - 4 °C (24.8 °F) estimated NA ND Insoluble ND 1,000 – 3,000 cPs NA 10. ST Stable under ambient condition If exposed to extremely high	ABIL is when tempera CO ₂).	ITY & stored pro- tures, the	CAL F	PROF	TY on 7, Stc	g. If ne	d Handlin	g).	ritating vapors a
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.99 0.10 0.11 0.12 0.13 0.14 0.15 0.16 0.17 10.1	Appearance: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information: Stability: Hazardous Decomposition Products:	protection is required under appropriate standards of Cana 9. PHYSICA Viscous liquid, various colors Ester (fruity) odor ND NA NA - 4 °C (24.8 °F) estimated NA ND Insoluble ND 1,000 – 3,000 cPs NA 10. ST Stable under ambient condition If exposed to extremely high carbon oxide gases (e.g., CO,	ABIL is when tempera CO ₂). mely high	ITY & stored pro- tures, the	CAL F	PROF	PERTIN	g. If ne ES	d Handlin	g).	ritating vapors a

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

SDS Revision: 1.3

		11. TOXICOLOGICAL INFORMATION		
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: YES		
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, available for some of the components of the product and is presented below:		
		<u>Ethyl Acetate</u> : LD_{50} (oral, rat) = 5,620 mg/kg; LD_{50} (oral, mouse) = 4,100 mg/kg; LC_{50} (inh-6h, rat) = 16,000 ppm		
11.3	Acute Toxicity:	See Section 4.4		
11.4	Chronic Toxicity:	See Section 4.5		
11.5	Suspected Carcinogen:	This product contains <u>Ethyl Acetate</u> and <u>Isopropyl Alcohol</u> , which are not carcinogenic to humans, but are listed as Group 3 carcinogens by the IARC. This product contains CI 77266 (Carbon Black), as a California listed carcinogen (initial date 02/21/03, airborne, unbound particles of respirable size) and listed as an IARC Group 2B carcinogen. Although this product contains trace amounts of Formaldehyde, it has been determined that the exposure levels are below the No Significant Risk Level (NSRL) level of 40 µg/day and, therefore, does not require warnings.		
11.6	Reproductive Toxicity:	This product is not reported to cause reproductive toxicity in humans.		
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.		
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.		
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.		
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.		
11.7	Irritancy of Product:	See Section 4.3		
11.8	Biological Exposure Indices:	NE		
11.9	Physician Recommendations:	Treat symptomatically.		
		12. ECOLOGICAL INFORMATION		
12.1	Environmental Stability:	The components of this product will slowly degrade over time into a variety of organic compounds. Specif		
		environmental data available for the components of this product are as follows:		
		<u>Ethyl Acetate</u> : $K_{oc} = 0.73$. Water solubility: 64,000 mg/l. Bioconcentration Factor = 4-14. Bioconcentration is n		
		anticipated to be significant. This compound can be removed from contaminated environments from volatilization, ar		
		biodegradation. This compound's half-life in water is 6.1 hours.		
		Butyl Acetate: K_{OC} = 1.82. Water solubility: 120 parts H ₂ O at 25 °C (77 °F). Bioconcentration Factor = 4-1		
		Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environmen		
		from volatilization, and biodegradation. This compound's half-life in water is 6.1 hours.		
		Isopropyl Alcohol: Log Kow = 0.05-0.14. Isopropyl alcohol occurs naturally; it is generated during microbial degradatic		
		of plant and animal wastes. When released on land or water, it is apt to volatilize and biodegrade. The estimated ha		
		life in water is 5.4 days. Isopropyl alcohol is not expected to bioconcentrate.		
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.		
13.1	Waste Disposal:	13. DISPOSAL CONSIDERATIONS		
	Waste Disposal:	Waste disposal must be in accordance with appropriate Federal, state, and local regulations.		
	Waste Disposal: Special Considerations:			
13.2	Special Considerations:	Waste disposal must be in accordance with appropriate Federal, state, and local regulations. U.S. EPA Waste Number: D001 (characteristic - ignitable) 14. TRANSPORTATION INFORMATION		
13.2 The b	Special Considerations: asic description (ID Number	Waste disposal must be in accordance with appropriate Federal, state, and local regulations. U.S. EPA Waste Number: D001 (characteristic - ignitable)		
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards

SDS Revision: 1.3

		15. REGULATORY INFORMATION		
15.1	SARA Reporting Requirements:	This product contains <u>Isopropanol</u> , a substance subject to SARA Title III, Section 313 reporting requirements. This product contains <u>Ethyl Acetate</u> , a substance that is subject to SARA Title III, Section 304 reporting.		
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):	Ethyl Acetate: 2,270 kg (5,000 lbs); Butyl 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).		
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. 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. Isopropanol is found on the following state criteria lists: CA, MA, MN, NJ, PA, and WA. <u>Heptane</u> is found on the following state criteria lists: DE, MA, and PA. <u>Heptane</u> is found on the following state criteria list: FL, MA, MN, PA and WA. <u>Camphor</u> is found on the following state criteria list: FL, MA, MN, PA and WA. 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 (NJ), New York Hazardous Substances List (NY), Pennsylvania		
15.8	Other Requirements:	Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). Although this product contains trace amounts of Formaldehyde, it has been determined that the exposure levels are below the No Significant Risk Level (NSRL) level of 40 µg/day and, therefore, does not require warnings.		
		16. OTHER INFORMATION		
16.1	Other Information:	DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. Keep away from heat/sparks/open flame/hot surfaces – No Smoking. Keep container tightly closed. Take precautionary measures against static discharge. Avoid breathing fume/mist/vapors/spray. Wash exposed skin areas thoroughly with soap and water after handling. Avoid eye contact. Wear protective gloves/eye protection/face protection. IF ON SKIN: Wash with soap and water. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If skin irritation or a rash occurs – Get medical advice/attention. Store in a well-ventilated place. Keep cool. Use only as directed. 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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SAFETY DATA SHEET

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

SDS Revision: 1.3

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	European Inventory of Existing Commercial Chemical Substances Number
No.	

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

PERSONAL PROTECTION RATINGS:

A	0		G	0			
в	6		н	0		盘	
С	6	1	I	0			
D	6	13 13	J	0		Ŵ	
E	8		κ			R	3
F	6		X			ervisor or ng directi	
Sa	afety Glasses	Splash Goggles	P	e Shield & rotective yewear	k	Glove	95
	Boots	Protective Apron		rotective hing & Fu Suit	11	Dust Resp	birator
Full Face Respirator		Half-Mask		ull Face espirator	А	irline Hoo or SCE	

OTHER STANDARD ABBREVIATIONS:

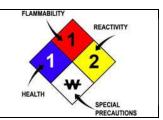
Carc	Irc Carcinogenic	
Irrit	Irritant	
NA	Not Available	
NR	No Results	
ND	Not Determined	
NE	Not Established	
NF	Not Found	
SCBA	Self-Contained Breathing Apparatus	
Sens	Sensitization	
STOT RE	Specific Target Organ Toxicity – Repeat Exposure	
STOT SE	Specific Target Organ Toxicity – Single Exposure	

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:		
Autoignition	Minimum temperature required to initiate combustion in air with no other	
Temperature	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
₩	Use No Water
OX	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 _{lo}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{lo} , LD _{lo} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC _o , LC _{lo} , & 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 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:

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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:

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