

SAFETY DATA SHEET

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

SDS Revision: 3.1

SDS Revision Date: 6/28/2018

1.1	Product Name:	1	PRODUC												
	Product Name:		TWRITER		UCTIV	E SIL	.VEI	RIN	K (R	ADI	OSF	IAC	K ®		
		P/N 276037), 4.0 g													
1.2	Chemical Name:	NA	,,	_											
1.3	Synonyms:		™; PN CW100L	_											
.4	Trade Names:		r™ PART NOS												
			/100P Pen (4 gr		Part No. Ra	idioSha	ck TM 2	76-03	7 (4 ara	ams):	F	art No	. CW1	100L-4	(125 g);
			/100L-4 (125 gra		Part No. CV					,,					2 (1000 g
							-		-						
1.5	Product Uses & Restrictions:	Silver Condu	ctive Ink												
1.6	Distributor's Name:	CAIG Labora	atories, Inc.												
1.7	Distributor's Address:	12200 Thatc	her Court, Powa	ay, CA 92064	-6876 USA										
1.8	Emergency Phone:	CHEMTR	EC: +1 (703)	527-3887	/ +1 (800) 424	-9300	(CC	N205	206)					
1.9	Business Phone / Fax:	+1 (800) 224	-4123					•							
	•	1 \ /													
			2. H	AZARDS	IDENT	IFIC/	ATIC	N							
2.1	Hazard Identification:	This product	is classified as						as DAI	IGER	OUS	GOOL)S		
			the classificatio									0002			
			CAUSES EYE									l.			
		Classification	n: Eye Irrit 2; Sk	in Irrit. 1B											
2.2	Label Elements:	Hazard State	ements (H): H22	20 – Causes	eye irritation	. H317	_ Ma	y caus	e an a	lergic	skin r	eaction	n. _	_	_
		Precautional	y Statements	(P): P261 -	Avoid bre	athing (dust/m	ist/vap	or/spr	ay. F	264	– Was	sh		•
			fter handling. Fater. P333+P3												
			+P338 – IF IN E												
			esent and easy												: /
		medical advi	ce/attention. Page 2	321 – Specif	ic treatmen	see th	is con	tainer	label.	P362-	+P364	l – Tal	ke		
			ated clothing a												•
		licenses trea	tment, storage a	and disposal	facility (TSI	OF).		'							
2.3	Other Warnings:	KEEP OUT	OF REACH OF	CHILDREN.											
		3. C	OMPOSIT	ION & IN	IGREDI	ENT	INF	ORI	ΛΑΤΙ	ON					
									EXPO	SURE LI	MITS IN	I AIR (m	ng/m³)		
						ACG	H		NOHSC			OSHA		1	
						pp	m		ppm			ppm	1	4	
HEN	MICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH		OTHER
		7440-22-4	VW350000	231-131-3	60-70	0.1	NA	0.01	NF	NF	NA	NA	10	DUST	
//	ED.														
SILV	ER			0110==0	15-40		NA	NF		A	N I A				
		1119-40-0	NA	214-277-2	15-40	NA	INA	INF	NF	NF	NA	NA	NA		
	ETHY GLUTARATE	1119-40-0	NA	214-277-2	15-40	NA	INA	NF	NF	NF	NA	NA	NA		
DIME	ETHY GLUTARATE	1119-40-0	NA WM6765000	203-419-9	NA	NA NA	NA	NF		NF NF	NA	NA NA	NA NA		
DIME		106-65-0	WM6765000	203-419-9	NA	NA	NA	NF	NF	NF	NA	NA	NA		
DIME	THY GLUTARATE								NF				1		
DIME	ETHY GLUTARATE	106-65-0 627-93-0	WM6765000 AV1645000	203-419-9	NA NA	NA NA	NA NA	NF NF	NF NF	NF NF	NA NA	NA NA	NA NA		
OIME OIME	THY GLUTARATE	106-65-0	WM6765000	203-419-9	NA	NA	NA	NF	NF NF	NF	NA	NA	NA		
DIME	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE	106-65-0 627-93-0	WM6765000 AV1645000	203-419-9	NA NA	NA NA	NA NA	NF NF	NF NF	NF NF	NA NA	NA NA	NA NA		
DIME	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE	106-65-0 627-93-0	WM6765000 AV1645000 NA	203-419-9 211-020-6 NA	NA NA NA	NA NA NA	NA NA	NF NF	NF NF	NF NF	NA NA	NA NA	NA NA		
DIME DIME DIME PRO	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE PRIETARY RESINS	106-65-0 627-93-0 NA	WM6765000 AV1645000 NA 4.	203-419-9 211-020-6 NA FIRST A	NA N	NA N	NA NA NA	NF NF	NF NF	NF NF	NA NA	NA NA	NA NA		
DIME DIME DIME	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE	106-65-0 627-93-0	WM6765000	203-419-9	NA N	NA N	NA NA NA RES	NF NF NF	NF NF Deen s	NF NF NF wallow	NA NA NA	NA NA	NA NA NA NA NA NA		
DIME DIME DIME	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE PRIETARY RESINS	106-65-0 627-93-0 NA	WM6765000 AV1645000 NA 4. If ingested, dIMMEDIATEL	203-419-9 211-020-6 NA FIRST # Io not inducy. If the pati	NA N	NA N	NA NA NA RES oduct ntinue	NF NF has to off	NF NF Deen ser water	NF NF Wallow	NA NA NA ved, conilk.	NA NA Irink p	NA N	ater or	milk to a
DIME	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE PRIETARY RESINS	106-65-0 627-93-0 NA	WM6765000 AV1645000 NA If ingested, d IMMEDIATEL unconscious p	203-419-9 211-020-6 NA FIRST A lo not induc Y. If the pati	NA N	NA N	NA NA NA RES oduct ntinue ison 0	NF NF has to off	NF NF Deen ser water Center	NF NF NF Wallower or mr or loo	NA NA NA ved, conilk. No	NA NA Arink p Never	NA N	ater or nber.	milk to a Provide a
DIME DIME PRO	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE PRIETARY RESINS	106-65-0 627-93-0 NA	WM6765000 AV1645000 NA If ingested, d IMMEDIATEL unconscious p estimate of th	203-419-9 211-020-6 NA FIRST A lo not induc Y. If the pati	NA N	NA N	NA NA NA RES oduct ntinue ison 0	NF NF has to off	NF NF Deen ser water Center	NF NF NF Wallower or mr or loo	NA NA NA ved, conilk. No	NA NA Arink p Never	NA N	ater or nber.	milk to a Provide a
DIME	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE PRIETARY RESINS	106-65-0 627-93-0 NA Ingestion:	NA A. If ingested, d IMMEDIATEL unconscious p estimate of th swallowed.	203-419-9 211-020-6 NA FIRST A to not inductive the pattern of the pattern of the time at well as the pattern of the pattern o	NA N	NA N	NA NA NA NA RES oduct ntinue ison C was i	NF NF has to off control ngester	NF NF Deen ser water Center and and	NF N	NA NA NA ved, conilk. No cal emamour	NA NA NA drink p Never p nergen nt of th	NA N	ater or mber. ostance	milk to a Provide a that wa
IIME IIME RO	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE PRIETARY RESINS	106-65-0 627-93-0 NA	MM6765000 AV1645000 NA If ingested, d IMMEDIATEL unconscious p estimate of th swallowed. Splashes are	203-419-9 211-020-6 NA FIRST A lo not induct Y. If the patition of time at we not likely; he	NA N	NA N	NA NA NA NA RES oduct ntinue ison C was i	NF NF NF has to off control ngestern the	NF NF NF Deen ser wate Centeed and eyes,	NF N	NA NA NA ved, conilk. No cal emamour	NA NA NA drink p Never p nergen nt of th	NA N	ater or mber. ostance	milk to a Provide a that wa
DIME DIME DIME	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE PRIETARY RESINS	106-65-0 627-93-0 NA Ingestion:	NA A. If ingested, d IMMEDIATEL unconscious p estimate of th swallowed.	203-419-9 211-020-6 NA FIRST A lo not inductly. If the patitiverson. Continue time at we not likely; heast 15 minutes	NA N	NA N	NA NA NA NA RES oduct ntinue ison C was i gets lower	NF NF NF has to off control ngestern the lids, o	NF NF NF Open s er wate Cente ed and eyes, ccasior	NF N	NA NA NA Ved, conilk. No cal emamour with constant controls.	NA NA NA NA drink p Never p nergen nt of the	NA N	ater or mber. I ostance unts of	milk to a Provide a that wa lukewar
DIME DIME PRO	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE PRIETARY RESINS	106-65-0 627-93-0 NA Ingestion:	MM6765000 AV1645000 NA If ingested, dimmediately unconscious pestimate of the swallowed. Splashes are water for at lea Wash thoroug least 15 minut	203-419-9 211-020-6 NA FIRST A to not induct Y. If the patitoerson. Contine time at w not likely; heast 15 minute hely with soap ess.	NA N	NA N	NA NA NA RES oduct ntinue ison C was i gets lower e of co	NF NF NF has to off control ngester in the lids, o ontact.	NF NF NF Deen ser water Centered and eyes, ccasior immediately	NF N	NA NA NA Ved, conilk. No cal emamour with conflush	NA NA NA Irink p Never p nergen nt of the opious skin w	NA	ater or mber. I ostance unts of nty of v	milk to a Provide a that was lukewar water for
DIME DIME PRO	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE PRIETARY RESINS	106-65-0 627-93-0 NA Ingestion:	MM6765000 AV1645000 NA If ingested, dimmediately unconscious pestimate of the swallowed. Splashes are water for at lease wat	203-419-9 211-020-6 NA FIRST A to not induct Y. If the patitoerson. Contine time at w not likely; heast 15 minute hely with soap es. In to fresh air	NA N	NA N	NA NA NA NA NA Oduct ntinue ison C was i gets lower e of co	NF NF NF has to off control ngestern the lids, o ontact, cult, ac	NF NF NF Deen ser water Centered and eyes, ccasior immediately	NF N	NA NA NA NA NA Ved, color and an amour with color flush gen.	NA NA NA Irink p Never p nergen nt of the opious skin w	NA	ater or mber. I ostance unts of nty of v	milk to a Provide a that was lukewar water for
DIME DIME PRO	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE PRIETARY RESINS First Aid:	106-65-0 627-93-0 NA Ingestion: Eyes: Skin:	MM6765000 AV1645000 NA If ingested, dimmediately unconscious pestimate of the swallowed. Splashes are water for at lea Wash thoroug least 15 minut	203-419-9 211-020-6 NA FIRST A to not induct Y. If the patitoerson. Contine time at w not likely; heast 15 minute hely with soap es. In to fresh air	NA N	NA N	NA NA NA NA NA Oduct ntinue ison C was i gets lower e of co	NF NF NF has to off control ngestern the lids, o ontact, cult, ac	NF NF NF Deen ser water Centered and eyes, ccasior immediately	NF N	NA NA NA NA NA Ved, color and an amour with color flush gen.	NA NA NA Irink p Never p nergen nt of the opious skin w	NA	ater or mber. I ostance unts of nty of v	milk to a Provide a e that was lukewar water for
DIME DIME PRO	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE PRIETARY RESINS	106-65-0 627-93-0 NA Ingestion: Eyes: Skin:	NA If ingested, dimer ingested in the second in the secon	203-419-9 211-020-6 NA FIRST A to not induct Y. If the patit person. Contine time at w not likely; he ast 15 minute hly with soap es. In to fresh air ation. Keep wallowed, ma	NA N	NA	NA NA NA NA NA NA NA Oduct ntinue ison C gets lower e of comp difficition and committee and c	NF NF NF has t to off ontrol nigester on the lids, o ontact, are the me g and/	NF NF NF Deen ser water Center and and eyes, ccasior immediately and distributed and distributed and arrival and arrival arriv	NF N	NA NA NA NA NA Ved, condition of the condition of th	NA NA NA drink p Never p nergen nt of the copious skin w	NA N	ater or mber. I ostance unts of nty of v	milk to a Provide a that wa lukewar water for
DIME	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE PRIETARY RESINS First Aid:	Ingestion: Eyes: Skin: Inhalation:	NA If ingested, dimer ingested in the second in the secon	203-419-9 211-020-6 NA FIRST A to not induct Y. If the patit person. Contine time at w not likely; he ast 15 minute hly with soap es. In to fresh air ation. Keep wallowed, ma	NA N	NA	NA NA NA NA NA NA NA Oduct ntinue ison C gets lower e of comp difficition and committee and c	NF NF NF has t to off ontrol nigester on the lids, o ontact, are the me g and/	NF NF NF Deen ser water Center and and eyes, ccasior immediately and distributed and distributed and arrival and arrival arriv	NF N	NA NA NA NA NA Ved, condition of the condition of th	NA NA NA drink p Never p nergen nt of the copious skin w	NA N	ater or mber. I ostance unts of nty of v	milk to a Provide a that wa lukewar water for
DIME DIME PRO	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE PRIETARY RESINS First Aid:	Ingestion: Ingestion: Ingestion:	NA If ingested, dimer ingested in the second in the secon	203-419-9 211-020-6 NA FIRST A to not induct Y. If the patit person. Contine time at w not likely; he ast 15 minute hly with soap es. In to fresh air ation. Keep wallowed, ma	NA N	NA	NA NA NA NA NA NA NA Oduct ntinue ison C gets lower e of comp difficition and committee and c	NF NF NF has t to off ontrol nigester on the lids, o ontact, are the me g and/	NF NF NF Deen ser water Center and and eyes, ccasior immediately and distributed and distributed and arrival and arrival arriv	NF N	NA NA NA NA NA Ved, condition of the condition of th	NA NA NA drink p Never p nergen nt of the copious skin w	NA N	ater or mber. I ostance unts of nty of v	milk to a Provide a that wa lukewar water for
DIME DIME PRO	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE PRIETARY RESINS First Aid:	Ingestion: Ingestion: Ingestion:	NA If ingested, dimer ingested in the second in the secon	203-419-9 211-020-6 NA FIRST A To not induct Y. If the pation of the time at we not likely; he ast 15 minute hely with soap es. In to fresh air ation. Keep wallowed, maitating to the ng to skin.	NA	NA	NA	NF NF NF has t to off lids, o ontact, alet me grand/gr	NF NF NF Deen ser water Center and and eyes, ccasior immediately and continuity of the continuity of t	NF NF NF NF NF NF Wallower or mr or loc the a flush mally. Cliately er oxyetention hea. The may income any income and inc	NA NA NA NA Ved, condition of the co	NA NA NA Irink p Never p nergen nt of the copious skin w If brea	NA N	ater or mber. pstance unts of nty of v stops gi	milk to a Provide a Provide a Interpretation Provide a Interpretation Provide a Provid
IME IME RO	ETHY GLUTARATE ETHYL SUCCINATE ETHYL ADIPATE PRIETARY RESINS First Aid:	Ingestion: Eyes: Skin: Inhalation: Ingestion: Eyes:	If ingested, dimensional individual individu	203-419-9 211-020-6 NA FIRST A Io not inducty. If the pation of the time at work in the composition of the time at work in the individuals.	NA	NA	NA	NF NF NF has t to off lids, o ontact, alet me g and/erexpc	NF NF NF Deen ser water Center and and eyes, ccasior immediately and continuity of the continuity of t	NF NF NF NF NF NF Wallower or mr or loc the a flush mally. Cliately er oxyetention hea. The may income any income and inc	NA NA NA NA Ved, condition of the co	NA NA NA Irink p Never p nergen nt of the copious skin w If brea	NA N	ater or mber. pstance unts of nty of v stops gi	milk to a Provide a Provide a Interpretation Provide a Interpretation Provide a Provid



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			4 FIDS	TAIDM	FACLID	TC -	- 10 4 ³ al					
4.3	Symptoms of Overexposure:	la a a a ti a a .		T AID M								
4.3	Symptoms of Overexposure.	Ingestion: Eyes:	Nausea, intesti					na				
		Skin:										
		<u> </u>	like symptoms. individuals.									
4.4	Acute Health Effects:		when used as							ted area	s. Addition	onally, high
4.5	Chronic Health Effects:		when used as uce skin sensitiz								sensitive	individuals.
4.6	Target Organs:	Eyes, Skin.										
4.7	Medical Conditions Aggravated by Exposure:		dermatitis, othe			isorders o	f the HE	ALTH				1
	Aggravated by Exposure.	target organs	s (eyes, skin, and	d respiratory	system).		FL	AMMA	BILITY			1
							PH	YSICA	L HAZ	ARDS		0
							PR	OTEC1	IVE E	QUIPME	ENT	В
							EYE	ES	SKIN			1
			5. FIF	REFIGHT	TING ME	ASUR	ES					
5.1	Fire & Explosion Hazards:	This product	is not flammable					nay dec	ompos	e at high		
5.2	Extinguishing Methods:		s to form toxic ga			tod\ I.lo		, , , ,			_	
0.2	·	containers.	n, CO ₂ , Dry Ch	iemicai, naid	on (ii permi	ilea). Us	e water sp	лау ю	cooi u	порепеа		
5.3	Firefighting Procedures:		for surrounding									
			paratus (pressur									0
			is out. Use wat Avoid spraying									
			off from fire cont									
			waterway. Firefi									\
			f-contained brea			t against į	ootential ha	azardou	comb	ustion or		
		decomposition	on products and	oxygen defici	encies.							
			6 ACCIDE	ENTAL F	RELEAS	F MFA	SURFS	3				
6.1	Spills:		6. ACCIDE						ear an	nronriate	Personal	Protective
6.1	Spills:	Before clear	ning any spill o	r leak, indivi	iduals involv	ed in spil	l cleanup	must w	ear app	propriate	Personal n-up of lar	Protective ae spills.
6.1	Spills:	Before clear Equipment.	ning any spill o Plastic or rubbe	r leak, indivi	iduals involv pirator, eye p	red in spil	l cleanup and apron r	must w	equired	for clear	n-up of lar	ge spills.
6.1	Spills:	Before clear Equipment. Small Spills: material suc	ning any spill o Plastic or rubbe Wear appropria h as vermiculite	r leak, indiving r gloves, respective or sand to s	iduals involver induals involver in the propertion of the properties of the properti	red in spil protection a including op product an	cleanup and apron r loves and d place int	must w may be i protecti to a con	equired ve eyev tainer f	for clear vear. Us or later o	n-up of lar se a non-c disposal.	ge spills. combustible Do not use
6.1	Spills:	Before clear Equipment. Small Spills: material suc water or a n	ning any spill o Plastic or rubbe Wear appropria h as vermiculite naterial such as	r leak, indiving r gloves, respective or sand to sapple dry'	iduals involvipirator, eye pequipment soak up the of to soak up	red in spil protection a including go product an material.	l cleanup and apron r lloves and d place int Sweep up	must w may be i protecti to a con materia	required ve eyev tainer f al using	for clear wear. Us or later of non-spa	n-up of large se a non-o disposal. Arking mate	ge spills. combustible Do not use
6.1	Spills:	Before clear Equipment. Small Spills: material suc water or a n plastic broom	ning any spill o Plastic or rubbe Wear appropria h as vermiculite naterial such as ns, shovels, dust	r leak, indiving r gloves, respective or sand to sand to sand to sand to sand plans) and plans)	iduals involveriduals involveriator, eye pequipment soak up the soak up ace into a pla	red in spil protection a including g product an material. astic conta	I cleanup and apron r loves and d place int Sweep up iner or plas	must w may be i protecti to a con materia stic liner	required ve eyev tainer f al using within a	for clear wear. Us or later of non-spa another c	n-up of large se a non-odisposal. arking mate ontainer.	ge spills. combustible Do not use erials (e.g.,
6.1	Spills:	Before clear Equipment. Small Spills: material suc water or a n plastic broon Large Spills:	ning any spill o Plastic or rubbe Wear appropria h as vermiculite naterial such as ns, shovels, dust Keep incompat	r leak, indiving r gloves, respective or sand to see "speedy dry pans) and plaid respective materials.	iduals involve pirator, eye pequipment soak up the soak up the sace into a place in to a grant of the sace in the	red in spil protection a including op product an material. astic conta nics such a	I cleanup and apron r lloves and d place int Sweep up iner or plas as oil) away	must w may be i protecti o a con materia stic liner y from s	required ve eyeventainer fool al using within a pill. Sta	for clear wear. Us or later of non-spa another c ay upwin	n-up of largese a non-odisposal. In arking mate ontainer. In and awa	ge spills. combustible Do not use erials (e.g., ay from spil
6.1	Spills:	Before clear Equipment. Small Spills: material suc water or a n plastic broom Large Spills: or release.	ning any spill o Plastic or rubbe Wear appropria h as vermiculite naterial such as ns, shovels, dust Keep incompat solate immediate	r leak, indiving r gloves, respected to sand to see "speedy dry" pans) and placible materials and areas and areas	iduals involve pirator, eye pequipment soak up the of to soak up ace into a place into a place and keep up and keep up and keep up ace into a place into a place and keep up ace and keep up ace into a place a and keep up up ace into a place	red in spill protection a including goroduct an material. astic contanics such a mauthorize	I cleanup and apron r lloves and d place int Sweep up iner or plas as oil) away d personne	must w may be i protecti to a con materia stic liner y from s el out of	required ve eyev tainer f al using within a pill. Starea. S	I for clear wear. Us or later of non-spa another c ay upwin Stop spill	n-up of largese a non-odisposal. In arking mate ontainer. In and awar or release	ge spills. combustible Do not use erials (e.g., ay from spill e if it can be
6.1	Spills:	Before clear Equipment. Small Spills: material suc water or a n plastic broom Large Spills: or release. I done with mi	ning any spill o Plastic or rubbe Wear appropria h as vermiculite naterial such as ns, shovels, dust Keep incompat solate immediate inimal risk. Wea	r leak, indiving r gloves, respected for sand to see sand and place to see sand areas r appropriate	iduals involver involver involver involved invol	red in spil protection a including g product an material. astic conta nics such a nauthorize quipment i	I cleanup and apron r lloves and d place int Sweep up iner or plas as oil) awa d personne ncluding re	must w may be i protecti to a con materia stic liner y from s el out of spirator	required ve eyev tainer f al using within a pill. Starea. S	I for clear wear. Us or later of non-spa another c ay upwin Stop spill	n-up of largese a non-odisposal. In arking mate ontainer. In and awar or release	ge spills. combustible Do not use erials (e.g., ay from spill e if it can be
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7.1	Spills: Work & Hygiene Practices:	Before clear Equipment. Small Spills: material suc water or a n plastic broom Large Spills: or release. I done with mi	ning any spill o Plastic or rubbe Wear appropria h as vermiculite naterial such as ns, shovels, dust Keep incompat solate immediate inimal risk. Wea HANDLIN drink or smoke When used as	r leak, indivir gloves, respecte protective or sand to see "speedy dry" pans) and plaible materials a hazard arear appropriate IG & ST when handle intended, no	iduals involved pirator, eye pequipment coak up the coak up the coak up ace into a place into a place into a place a and keep uprotective e	red in spil protection a including goroduct an material. astic contanics such a nauthorize quipment i	cleanup and apron r lloves and d place int Sweep up iner or plas as oil) away d personna cluding re	must w may be i protecti o a con materia stic liner y from sel out of spirator N er press is neces	required ve eyev tainer f al using within a pill. Starea. S y protect	d for clear wear. Us or later of non-spa another c ay upwin Stop spill ction as c	n-up of lands a non-codisposal. In larking mate ontainer. In d and award or release conditions were seen a void	ge spills. combustible Do not use erials (e.g., ay from spill e if it can be warrant. puncturing
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 3.1

SDS Revision Date: 6/28/2018

	8 1	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd
8.4	Eye Protection:	Avoid eye contact. Wear splash proof goggles or equivalent eye protection (ANSI Z87). Safety
		glasses need to be used when handling or using this product.
8.5	Hand Protection:	Impermeable gloves required. May cause skin irritation in some sensitive individuals. When handling wear rubber, nitrile or impervious plastic gloves.
8.6	Body Protection:	No apron required when handling small quantities. When handling large quantities (e.g., ≥ 5 lbs), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.
		morning tange quantities of this product, mach any expected around the roughly man coup and material
		9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Appearance:	Thick silver colored paste
9.2	Odor:	Sweet odor
9.3	Odor Threshold:	NA NA
9.4	pH:	NA NA
9.5	Melting Point/Freezing Point:	NA NA
9.6	Initial Boiling Point/Boiling Range:	196-212 °C (388-413 °F)
9.7	Flashpoint:	100 °C (212 °F)
9.8	Upper/Lower Flammability	NA
9.9	Limits: Vapor Pressure:	0.10 mm Hg @ 20 ℃
9.10	Vapor Density:	NA
9.11	Relative Density:	NA NA
9.12	Solubility:	Negligible
9.13	Partition Coefficient (log Pow):	NA
9.14	Autoignition Temperature:	NA NA
9.15	Decomposition Temperature:	NA NA
9.16	Viscosity:	NA NA
9.17	Other Information:	NVC 60-70%
	•	
		10. STABILITY & REACTIVITY
10.1	Stability:	Stable under normal conditions; unstable with heat or contamination.
10.2	Hazardous Decomposition	Oxides of carbon (CO, CO ₂).
10.3	Products: Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Open flames, sparks, high heat, incompatible substances and direct sunlight.
10.5	Incompatible Substances:	Avoid extreme heat and ignition sources. Store away from oxidizers.
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		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, is
11.3	Acute Toxicity	available for some of the components of the product and is not presented in this document.
	Acute Toxicity:	Moderate irritation to eyes and skin near affected areas.
11.4	Chronic Toxicity: Suspected Carcinogen:	This material may aggravate any pre-existing skin condition (e.g., dermatitis).
11.6	Reproductive Toxicity:	NA This product is not reported to produce reproductive toxicity in humans
11.0	Mutagenicity:	This product is not reported to produce reproductive toxicity in humans.
	Embryotoxicity:	This product is not reported to produce mutagenic effects in humans.
	Teratogenicity:	This product is not reported to produce embryotoxic effects in humans. This product is not reported to cause teratogenic effects in humans.
	Reproductive Toxicity:	This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans.
11.7	Irritancy of Product:	The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.
11.8	Biological Exposure Indices:	NE
11.9	Physician Recommendations:	Treat symptomatically.
		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	There is no specific data available for this product.
12.2	Effects on Plants & Animals:	There are no specific data available for this product.
12.3	Effects on Aquatic Life:	There are no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.



15.8

Other Requirements:

SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 6/28/2018 13. DISPOSAL CONSIDERATIONS Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal 13.1 Waste Disposal: regulations. Dispose of in accordance with federal, state and local regulations. 13.2 Special Considerations: The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state, federal and provincial regulations. 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): **NOT REGULATED** IATA (AIR): 14.2 **NOT REGULATED** IMDG (OCN): 14.3 NOT REGULATED TDGR (Canadian GND): 14 4 NOT REGULATED ADR/RID (EU): 14.5 NOT REGULATED 14.6 SCT (MEXICO): **NOT REGULATED** ADGR (AUS): 14.7 **NOT REGULATED** 15. REGULATORY INFORMATION SARA Reporting 15.1 This product contains Silver a substance subject to SARA Title III, section 313 reporting requirements. Requirements 15.2 SARA Threshold Planning There are no specific Threshold Planning Quantities for the components of this product. Quantity: 15.3 TSCA Inventory Status: The components of this product are listed on the TSCA Inventory. 15.4 CERCLA Reportable Quantity Silver: 454 kg (1,000 lbs.) (RQ): 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 Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. Silver is found on the following state criteria list: Florida Toxic Substances List (FL), Massachusetts Hazardous 15.7 State Regulatory Information: 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). No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances

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

harm. For more information go to www.P65Warnings.ca.gov

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		16. OTHER INFORMATION				
16.1	Other Information:	WARNING! CAUSES EYE IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. Use only as directed. Avoid contact with skin. Avoid contact with eyes. Wear suitable protective clothing/gloves. Avoid breathing dust/mist/vapor/spray. Wash thoroughly after handling. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Specific treatment see this container label. Take off contaminated clothing and was it before reuse. KEEP LOCKED UP AND 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 & CAIG Laboratories, Inc.'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:	CAIG Laboratories, Inc. 12200 Thatcher Court Poway, CA 92064-6876 Tel: +1 (800) CAIG-123 (244-4123) Fax: +1 (858) 486-8398 fax http://www.caig.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: 1.0

SDS Revision Date: 6/28/2018

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	LH 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

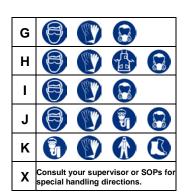
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С		THE STATE OF THE S	
D		THE THE	
Е			
F		TH.	





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

FLAMMABILI	TY LIMITS IN AIR:
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

HAZARD RATINGS:

0	Minimal Hazard	FLAMMABILITY
1	Slight Hazard	\
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	\sim 2
ALK	Alkaline	
COR	Corrosive	/ \ \ \ \
₩	Use No Water	HEALTH
OX	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	TD _{lo} , LD _{lo} , & LD _o or Lowest dose (or concentration) to cause lethal or toxic effects			
TC, TCo, LCio, & LCo				
IARC	International Agency for Research on Cancer			
NTP	National Toxicology Program			
RTECS	Registry of Toxic Effects of Chemical Substances			
BCF	Bioconcentration Factor			
TLm	Median threshold limit			
log Kow or log Koc	Coefficient of Oil/Water Distribution			

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System			
DOT	U.S. Department of Transportation			
TC	Transport Canada			
EPA	U.S. Environmental Protection Agency			
DSL	Canadian Domestic Substance List			
NDSL	Canadian Non-Domestic Substance List			
PSL	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:

0	*	(2)		\odot	(4)		
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:

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