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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 3.0 SDS Revision Date: 1/31/2022

1.2 1.3 1.4 1.5 1.6 1.7 1.8	Product Name: Chemical Name: Synonyms: Trade Names: Product Use: Distributor's Name: Distributor's Address:	ANTIQU	PRODUC	1 & C.()IVI		IDE	LITIE	-104	TIO					
1.2 1.3 1.4 1.5 1.6 1.7 1.8	Chemical Name: Synonyms: Trade Names: Product Use: Distributor's Name: Distributor's Address:				PANI	IDEI	NIII	ICA	1101	N				
1.3 1.4 1.5 1.6 1.7 1.8 1.9	Synonyms: Trade Names: Product Use: Distributor's Name: Distributor's Address:		E BLACK	® M21										
1.4 1.5 1.6 1.7 1.8 1.9	Trade Names: Product Use: Distributor's Name: Distributor's Address:	Acid Mixture												
1.5 1.6 1.7 1.8 1.9	Product Use: Distributor's Name: Distributor's Address:	730050, 7300	51, 730058, 73	80050INT										
1.6 1.7 1.8 1.9	Distributor's Name: Distributor's Address:	Antique Black	® M21											
1.7 1.8 1.9	Distributor's Address:	Blackening S	olution for Nicke	el & Silver										
1.8		Birchwood La	aboratories LLC											
1.9		7900 Fuller R	load, Eden Prai	rie, MN 55344	USA									
	Emergency Phone:	ChemTrec	+1 (800) 424-	9300 / +1 (70	3) 527-3	887 or	Pois	on Co	ontrol	Cent	ter +1	(855)	281-1	742
0.4	Business Phone / Fax:		7-7900 / +1 (952		,							(000)		
0.4				AZADDO	IDENT	IEIC	A TIC	146						
	Hazard Identification:	T		AZARDS									14 00 0	FD 1010 1000
2.1	nazard identification:						ndards	s. Inter	nded to	o com	ply wit	th OSF	1A 29 C	FR 1910.1200.
			HMIS and Austr			-	/INI DI	IDNE	OD EV	E DAI	MAGE		CALIE	E DAMAGE TO
		ORGANS TH	ROUGH PROFECTS.	LONGED OR	REPEAT	ED EX	POSU	IRE. V	ERY T					E WITH LONG
2.2	Label Elements:		: Acute Tox. 3,					•						
	Other Warnings:	damage. H37 Very toxic to a Precautionar hands and exeat, drink, or protective gl SWALLOWE immediately Wash contan SDS. P304+1 P305+P354+ present and extreatment see — Dispose of	ements (H): H3 73 - May cause aquatic life with y Statements (xposed skin are smoke when us oves/ protectiv D: Rinse mouth all contaminate ninated clothing P340 - IF INHA P338 - IF IN E easy to do. Con e section 4 (first contents/ conta	damage to o long lasting et P): P260 - Do as with soap a sing this produce clothing/ ey Do NOT individed clothing. Im a before reuse. LLED: Remove YES: Rinse withous rinsing. Faid) of this SD ainer to an apport or medical incertion of the U.S.	rgans thro fects. not breat nd warm v tt. P273 – re protecti uce vomiti mediately P321 – S r person to th water fo 2316 – Get S. P391 – roved was	ugh pro he dus vater tr Avoid ro on/ fac ng. P30 rinse v pecific to fresh or seve emerg Collect te dispo	olonge st/mist/ norougelease ce pro 22+P3 with w treatm air an eral mi gency I t spilla osal p	fume/vihly after to the otection 61+P3 ater for ent seed keep nutes. nelp im ge. P4 lant.	apor/ser hander environ P30 P54 – IF reverse section Remo P55 – Signature ease on this \$100 P55 – \$	pray. Idling. If on the state of the state o	P264 - P270 - t. P280 30+P33 SKIN: nutes. irst aid for brotact le 321 - cked u	H410 - Was - Do no) - Wea 31 - II Take o P363 i) of thi eathingenses, Specifi p. P50 ysician out of	h hot ar F F F F F F F F F F F F F F F F F F	I poison control of children.
			1	1	T						IMITS IN	I AIR (mg	g/m³)	
						ACC	GIH		NOHSC			OSHA		
						pp	m		ppm			ppm		
			1	1			Ì	ES-	ES-	FC				
CHEMIC	AI NAME(S)	CAS No	RTFCS No.	FINECS No	%	ΤΙV	STFI			ES- PFAK	PFI	STFI	IDI H	OTHER
	AL NAME(S)	CAS No. 7732-18-5	RTECS No. ZC0110000	EINECS No. 231-791-2	% 60-100	TLV NE	STEL NE	TWA NF	STEL NF	PEAK NF	PEL NE	STEL NE	IDLH NE	OTHER
CHEMICA WATER	•							TWA	STEL	PEAK				OTHER
WATER	•	7732-18-5 7758-99-8	ZC0110000					TWA	STEL	PEAK				OTHER
WATER	?	7732-18-5 7758-99-8 Acute Tox. 4;	ZC0110000 NA H302	231-791-2 NA	5-10	NE (1)	NE NA	NF NF	NF NF	NF NF	NE (1)	NE NA	NE 1000	OTHER
WATER	?	7732-18-5 7758-99-8 Acute Tox. 4; 7783-00-8	NA H302 VS7175000	231-791-2 NA 231-974-7	5-10 1-5	NE (1) (0.2)	NE NA NA	NF NF (0.2)	NF NF	NF NF	NE (1) (0.2)	NE NA NA	1000 NA	
WATER	C SULFATE	7732-18-5 7758-99-8 Acute Tox. 4; 7783-00-8 Acute Tox. (o	NA H302 VS7175000 ral) 3; Acute Tox.	231-791-2 NA 231-974-7 (inh) 3; STOT R	5-10 5-10 1-5 E 2; Acute /	(1) (0.2) Aquatic	NA NA 1; Chro	NF NF (0.2)	NF NF NF uatic 1;	NF NF NF H301, F	(1) (0.2) (331, F	NE NA NA 1373, H4	NE 1000 NA 400, H41	
WATER	C SULFATE	7732-18-5 7758-99-8 Acute Tox. 4; 7783-00-8 Acute Tox. (o 7697-37-2	NA H302 VS7175000 vs. Cut Cut	231-791-2 NA 231-974-7 (inh) 3; STOT R 231-714-2	5-10 1-5	NE (1) (0.2)	NE NA NA	NF NF (0.2)	NF NF	NF NF	NE (1) (0.2)	NE NA NA	1000 NA	
WATER CUPRIC SELENI	C SULFATE	7732-18-5 7758-99-8 Acute Tox. 4; 7783-00-8 Acute Tox. (o 7697-37-2	NA H302 VS7175000 ral) 3; Acute Tox.	231-791-2 NA 231-974-7 (inh) 3; STOT R 231-714-2	5-10 5-10 1-5 E 2; Acute /	(1) (0.2) Aquatic	NA NA 1; Chro	NF NF (0.2)	NF NF NF uatic 1;	NF NF NF H301, F	(1) (0.2) (331, F	NE NA NA 1373, H4	NE 1000 NA 400, H41	
WATER CUPRIC SELENI	C SULFATE	7732-18-5 7758-99-8 Acute Tox. 4; 7783-00-8 Acute Tox. (o 7697-37-2	NA H302 VS7175000 ral) 3; Acute Tox. QU5775000 QU57750	231-791-2 NA 231-974-7 (inh) 3; STOT R 231-714-2 2, H314	5-10 1-5 E 2; Acute 1	(1) (0.2) Aquatic 2	NA NA 1; Chro	NF NF (0.2)	NF NF NF uatic 1;	NF NF NF H301, F	(1) (0.2) (331, F	NE NA NA 1373, H4	NE 1000 NA 400, H41	
WATER CUPRIC SELENI NITRIC	C SULFATE IOUS ACID ACID	7732-18-5 7758-99-8 Acute Tox. 4; 7783-00-8 Acute Tox. (o 7697-37-2	NA H302 VS7175000 ral) 3; Acute Tox. QU5775000 Corr. 1A; H272	231-791-2 NA 231-974-7 (inh) 3; STOT R 231-714-2 2; H314	60-100 5-10 1-5 E 2; Acute 1 1-5	(0.2) Aquatic 2	NA NA 1; Chrc 4	NF NF (0.2) onic Aqu	NF NF NF NF NF	NF NF NF NF NF H301, H	(1) (0.2) (331, F	NA NA NA NA	NE 1000 NA 400, H41 25	0
WATER CUPRIC SELENI NITRIC	C SULFATE	7732-18-5 7758-99-8 Acute Tox. 4; 7783-00-8 Acute Tox. (o 7697-37-2 Ox. Liq. 3; Sk	NA H302 VS7175000 ral) 3; Acute Tox. QU5775000 cin Corr. 1A; H272 4. Do not induce victim's head transport if any	231-791-2 NA	60-100 5-10 1-5 E 2; Acute / 1-5 D ME / I +1 (855) ard) to keroted.	(1) (0.2) Aquatic 2 ASUF 281-1 ep vom	NA NA 1; Chro 4 RES 742 fonit from	NF (0.2) conic Aqu 2 or emen	NF NF NF NF actic 1; NF rgency	NF NF NF H301, H NF e lung	(1) (0.2) (331, F 2 cal ad	NA N	NE 1000 NA 400, H41 25 vomiting for eme	og occurs, keep
WATER CUPRIC SELENI NITRIC	C SULFATE IOUS ACID ACID	7732-18-5 7758-99-8 Acute Tox. 4; 7783-00-8 Acute Tox. (o 7697-37-2 Ox. Liq. 3; Sk	NA H302 VS7175000 ral) 3; Acute Tox. QU5775000 in Corr. 1A; H272 Do not induce victim's head transport if any Remove and	231-791-2 NA	5-10 1-5 E 2; Acute / 1-5 D ME	(1) (0.2) Aquatic 2 ASUF 281-1'ep vom	NA NA 1; Chro 4 RES 742 fonit from	NF (0.2) conic Aqu 2 or emen n ente	NF NF NF NF actic 1; NF rgencyring th	NF NF NF H301, H NF r medice lung	(1) (0.2) (331, F 2 cal ad	NA N	NE 1000 NA 400, H41 25 vomiting for eme	o ng occurs, keep
WATER CUPRIC SELENI NITRIC	C SULFATE IOUS ACID ACID	7732-18-5 7758-99-8 Acute Tox. 4; 7783-00-8 Acute Tox. (o 7697-37-2 Ox. Liq. 3; Sk	NA H302 VS7175000 ral) 3; Acute Tox. QU5775000 in Corr. 1A; H272 Do not induce victim's head transport if any Remove and minutes. Seek	231-791-2 NA 231-974-7 (inh) 3; STOT R 231-714-2 2; H314 FIRST Al e vomiting. Cal lowered (forway symptoms no discard contact immediate meaning and contact	5-10 1-5 E 2; Acute / 1-5 D MEA I +1 (855) ard) to keroted. et lenses i edical attering and wa	(0.2) Aquatic 2 ASUF 281-1 ep vom f worn ntion which expo	NA NA 1; Chro 4 RES 742 fonit from and finen doosed so	NF (0.2) onic Aqu or emen ente lush eyone rins kin witi	NF NF NF atic 1; NF rgency ring th /es wirsing ey	NF NF NF H301, F NF r medice lungeth large/es.	(1) (0.2) (331, H 2 cal ad gs. Cal	NA N	NE 1000 NA 400, H41 25 vomiting for eme of water	og occurs, keep



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SDS Revision: 3.0

		4. FIRST AID) ME	ASUI	RES -	contra						
4.2	Effects of Exposure:	Eyes: Severe or permanent eye	/e dama									
		Skin: Burns upon direct contact.										
		Ingestion: Severe burns of mouth, throat, stomach.										
		<u>Inhalation</u> : Severe irritation or burns in respiratory tract and mucous membranes. Pos						s. Possi	ble lung o	damage	٠.	
4.3	Symptoms of Overexposure:	Eyes: Redness, burning, irritation, and swelling around eyes										
		Skin: Redness, burning, itching										
		Ingestion: Nausea, vomiting, severe								41-1		
4.4	A cuto I lookh Effects	Inhalation: Coughing, wheezing, sw										
4.4	Acute Health Effects: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respirator. May be harmful if swallowed. Causes burns. May be harmful if absorbed through skin.						rator					
4.5	Chronic Health Effects:	May damage the nervous system, kidner				iidi ii absc	nbea tine	agii skiii	l-			
1.6	Target Organs:	Eyes, skin, nervous system, kidneys, liv										
1.7	Medical Conditions	Pre-existing dermatitis, other skin cond				the target	HEAL	TH				3
	Aggravated by Exposure:	organs (eyes, skin, and respiratory sys							ITV			
		may be more susceptible to the effects	s of this	substar	nce. 1`	•		IMABIL				0
							PHYS	ICAL H	AZARD	S		2
							PROT	ECTIVE	E EQUIP	MENT	•	Н
							EYES	SH	(IN	LUNG	S	
.8	Notes to Physician:	This product contains Selenious Acid a	and is p	otential	lly fatal if ir	ngested e	ven in sm	all amou	ınts. 24-l	hour ad	mission s	shoul
		be considered in asymptomatic or minir										
		multi-organ failure may occur. 24/7 med	edical to	xicology	y consultat	ion is ava	ilable at ·	+1 (855)	281-1742	2.		
		5. FIREFIG	<u> SHTIN</u>	NG M	<u>IEASU</u>	RES						
5.1	Fire & Explosion Hazards:	Non-flammable. May react with metals air. May intensity fire; oxidizer. Keep/S	to relea	ase hydi	rogen gas,	which car	n form ex	plosive m	nixtures w	vith		
5.2	Extinguishing Methods:	Use fire-extinguishing media appropriate					ible mate	ilais.				
5.3	Firefighting Procedures:	As with any fire, firefighters should we					ant includ	ling a M ^o	SHA/NIO	SH		
		approved or equivalent self-contained breathing apparatus (SCBA) and protective clothing. Fight fires										
		as for surrounding materials. Hazardous decomposition products may be released. Thermal degradation may produce oxides of carbon, phosphorous, selenium and/or nitrogen, hydrocarbons									3	2
			zardous	decon	nposition	products	may be	release	d. Therr	mal 🔝	3	2
		degradation may produce oxides of cand/or derivatives. Fire should be fought	zardous carbon, ght from	decon phosp a safe	nposition horous, se distance.	products elenium a Keep con	may be nd/or niti tainers co	release ogen, hy ool until v	ed. Therr ydrocarbo vell after	nal ons the	3	2
		degradation may produce oxides of c and/or derivatives. Fire should be fougl fire is out. Use water spray to cool fire	zardous carbon, ght from re-expo	decon phosp a safe sed sur	nposition horous, se distance. faces and	products elenium a Keep con to protec	may be nd/or nitr tainers co t persona	release ogen, hy ool until v al. Fight	ed. Therrydrocarbo vell after f fire upwi	mal ons the nd.	3	2
		degradation may produce oxides of c and/or derivatives. Fire should be fougl fire is out. Use water spray to cool fire Prevent runoff from fire control or dilut	zardous carbon, ght from re-expo	decon phosp a safe sed sur	nposition horous, se distance. faces and	products elenium a Keep con to protec	may be nd/or nitr tainers co t persona	release ogen, hy ool until v al. Fight	ed. Therrydrocarbo vell after f fire upwi	mal ons the nd.	3	2
		degradation may produce oxides of c and/or derivatives. Fire should be fougl fire is out. Use water spray to cool fire	zardous carbon, ght from re-expo	decon phosp a safe sed sur	nposition horous, se distance. faces and	products elenium a Keep con to protec	may be nd/or nitr tainers co t persona	release ogen, hy ool until v al. Fight	ed. Therrydrocarbo vell after f fire upwi	mal ons the nd.	3	2
		degradation may produce oxides of c and/or derivatives. Fire should be fougl fire is out. Use water spray to cool fire Prevent runoff from fire control or dilut	zardous carbon, pht from re-expos ition froi	decon phosplasafe sed sur menter	nposition horous, se distance. faces and ring sewers	products elenium a Keep con to protects, drains,	may be nd/or niti tainers co t persona drinking	release ogen, hy ool until v al. Fight	ed. Therrydrocarbo vell after f fire upwi	mal ons the nd.	3	<u>2</u>
6.1	Spills:	degradation may produce oxides of cand/or derivatives. Fire should be fouglifire is out. Use water spray to cool fire Prevent runoff from fire control or dilutinatural waterway. 6. ACCIDENTA Before cleaning any spill or leak, individed.	zardous carbon, ght from re-exposition from	decon phosp a safe sed sur m enter	nposition horous, se distance. faces and ring sewers SE ME in spill clea	products elenium a Keep con to protect s, drains, ASUR nup must	may be nd/or nitritainers control tainers con	release rogen, hy pool until v al. Fight water su	ed. Therrydrocarbo yell after fire upwi pply, or a	nal ons the nd. any	iive Equip	omen
6.1	Spills:	degradation may produce oxides of cand/or derivatives. Fire should be fouglifire is out. Use water spray to cool fire Prevent runoff from fire control or dilutinatural waterway. 6. ACCIDENTA Before cleaning any spill or leak, individ (PPE). Use safety glasses or safety go	zardous carbon, ght from re-exposition from	decon phosp a safe sed sur m enter	nposition horous, se distance. faces and ring sewers SE ME in spill clea	products elenium a Keep con to protect s, drains, ASUR nup must	may be nd/or nitritainers control tainers con	release rogen, hy pool until v al. Fight water su	ed. Therrydrocarbo yell after fire upwi pply, or a	nal ons the nd. any	tive Equip	omen
6.1	Spills:	degradation may produce oxides of cand/or derivatives. Fire should be fouglifire is out. Use water spray to cool fire Prevent runoff from fire control or dilutinatural waterway. 6. ACCIDENTA Before cleaning any spill or leak, individ (PPE). Use safety glasses or safety go etc.) to prevent skin contact.	zardous carbon, ght from re-expo- ition from L RE duals inv	decon phosp a safe sed sur m enter	nposition horous, se distance. faces and ring sewers SE ME in spill clea ie shield; u	products elenium a Keep con to protects, drains, ASUR nup must se gloves	may be nd/or nitration in tainers control to personal drinking ES wear appand other	release rogen, hy rool until v al. Fight water su ropriate r protect	ed. Therrydrocarbo vell after fire upwin pply, or a Personal ive clothin	Protecting (e.g.	, apron, b	oots
33.1	Spills:	degradation may produce oxides of cand/or derivatives. Fire should be fouglifire is out. Use water spray to cool fire Prevent runoff from fire control or dilutinatural waterway. 6. ACCIDENTA Before cleaning any spill or leak, individ (PPE). Use safety glasses or safety getc.) to prevent skin contact. Small Spills: Wear appropriate protect	zardous carbon, ght from re-exposition from the carbon from th	decon phospi a safe sed sur m enter	nposition horous, se distance. faces and ring sewers SE ME in spill clea te shield; ut including	products elenium a Keep con to protects, drains, ASUR nup must se gloves gloves ar	may be nd/or nitro tainers control to personal drinking ES wear app and other and protections.	release rogen, hy pol until vall. Fight water su propriate er protect tive eyeven.	ed. Therrydrocarbovell after fire upwill pply, or a Personal ive clothin wear. Us	Protecting (e.g.	, apron, b n-combus	oots
33.1	Spills:	degradation may produce oxides of cand/or derivatives. Fire should be fouglifire is out. Use water spray to cool fire Prevent runoff from fire control or dilutinatural waterway. 6. ACCIDENTA Before cleaning any spill or leak, individ (PPE). Use safety glasses or safety goetc.) to prevent skin contact. Small Spills: Wear appropriate protect inert material such as vermiculite or sai	zardous carbon, ght from re-exposition from the carbon from th	decon phospi a safe sed sur m enter volved i and fac uipment oak up	nposition horous, se distance. faces and ring sewers SE ME in spill clea te shield; ut including the product	products elenium a Keep conto protects, drains, ASUR nup must se gloves gloves ar et and place	may be nd/or nitritainers cot personal drinking ES wear app and other and protect the into a control of the	release rogen, hy pol until val. Fight water su propriate or protect tive eyes container	Personal ive clothin wear. Us	Protecting (e.g.	, apron, b n-combus il.	oots
3.1	Spills:	degradation may produce oxides of cand/or derivatives. Fire should be fouglifire is out. Use water spray to cool fire Prevent runoff from fire control or dilutinatural waterway. 6. ACCIDENTA Before cleaning any spill or leak, individ (PPE). Use safety glasses or safety getc.) to prevent skin contact. Small Spills: Wear appropriate protect inert material such as vermiculite or sail Large Spills: Keep incompatible material.	zardous carbon, ght from re-exposition from the carbon from th	decon phospi a safe sed sur m enter LEA volved i and fac uipment oak up g., orga	nposition horous, se distance. faces and ring sewers SE ME in spill clea te shield; ut including the productions such	products elenium a Keep conto protects, drains, ASUR nup must se gloves aret and place as oil) aw	may be nd/or nitr tainers cot personal drinking ES wear app and other and protected into a capy from s	release rogen, hy pool until val. Fight water su propriate er protect tive eyes container spill. Stay	Personal ive clothin	Protecting (e.g. se a nordisposa and aw	, apron, b n-combus al. ay from s	oots stible spill o
3.1	Spills:	degradation may produce oxides of cand/or derivatives. Fire should be fouglifire is out. Use water spray to cool fire Prevent runoff from fire control or dilutinatural waterway. 6. ACCIDENTA Before cleaning any spill or leak, individ (PPE). Use safety glasses or safety getc.) to prevent skin contact. Small Spills: Wear appropriate protect inert material such as vermiculite or sal Large Spills: Keep incompatible materielease. Isolate immediate hazard are	zardous carbon, yht from re-exposition from the LRE duals in goggles stive equand to serials (e. rea and	decon phospi a safe sed sur m enter LEA volved i and fac uipment oak up g., orga keep u	nposition horous, se distance. faces and ring sewers seems s	products elenium a Keep conto to protects, drains, ASUR nup must se gloves are tand place as oil) award persone	may be nd/or nitr tainers or t persona drinking ES wear app and other and protect the into a cay from some out or one of the out or one of the note of the	release rogen, hy pol until v al. Fight water su propriate propriate try protect tive eyev container pill. Stay f area. S	Personal ive clothic war. Us	Protecting (e.g. and away or release	, apron, b n-combus il. ay from s ase if it c	stible spill o
3.1	Spills:	degradation may produce oxides of cand/or derivatives. Fire should be fouglifire is out. Use water spray to cool fire Prevent runoff from fire control or dilutinatural waterway. 6. ACCIDENTA Before cleaning any spill or leak, individ (PPE). Use safety glasses or safety getc.) to prevent skin contact. Small Spills: Wear appropriate protect inert material such as vermiculite or sail Large Spills: Keep incompatible material.	zardous carbon, yht from re-exposition from the LRE duals in loggles stive equand to serials (e. rea and priate p	decon phospi a safe sed sur m enter LEA volved i and fac uipment oak up g., orga keep u	nposition horous, se distance. faces and ring sewers sewer	products elenium a Keep con to protect s, drains, ASUR nup must se gloves ar et and place as oil) aw ed personient includi	may be nd/or nitt tainers cot t persona drinking ES wear app and other and protect the into a cot and grows and out of the cot of	release rogen, hy columnity water su propriate er protect tive eyev container pill. Star f area. Statory pro	Personal ive clothic yupwind Stop spill otection a	Protecting (e.g. and aw or release concerns)	, apron, k n-combus il. ray from s ase if it c litions wa	ooots stible spill o an b arran
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7.1 7.2	Work & Hygiene Practices: Storage & Handling: Special Precautions: Exposure Limits:	degradation may produce oxides of and/or derivatives. Fire should be fouglifire is out. Use water spray to cool fire Prevent runoff from fire control or dilut natural waterway. 6. ACCIDENTAL Before cleaning any spill or leak, individ (PPE). Use safety glasses or safety getc.) to prevent skin contact. Small Spills: Wear appropriate protect inert material such as vermiculite or sal Large Spills: Keep incompatible mater release. Isolate immediate hazard are done with minimal risk. Wear appropriate appropriate protect inert material such as vermiculite or sal Large Spills: Keep incompatible mater release. Isolate immediate hazard are done with minimal risk. Wear appropriate protect inert material such as vermiculite or sal Large Spills: Keep incompatible mater release. Isolate immediate hazard are done with minimal risk. Wear appropriate protect in a cover as much free liquid as possition discharging liquid directly into a sewer. 7. HANDLING & 9 Avoid breathing mists or spray. Avoid of the reach of children. Do not eat, drexpose to heat and flame. Use only in decontaminate any spills or residues. Use and store in a cool, dry, well-ventila Store in acid-resistant containers. Keekep away from incompatible substance Empty containers may retain hazardous. 8. EXPOSURE CONTRO CHEMICAL NAME(S) CUPRIC SULFATE SELENIOUS ACID (1)	zardous carbon, sht from re-exposition from the carbon from th	decon phospina safe sed surm enter volved i and facuipment oak up gurant coak up face wat acceptance wat reaction (et ainers e Section uct residuate residuate stellar set.	SE ME in spill clea te shield; u t including the product anics such anics suc	products elenium a Keep conto to protects, drains, where the conto seed of the conto	may be nd/or nitt tainers cot t persona drinking ES wear app and other and protect the into a control of the	release rogen, hy pol until val. Fight water su propriate er protect tive eyes container spill. Start artory produce absolute abs	Personal ive clothin wear. Use for later y upwind otection a rebent to personal damagement and d	Protecting (e.g. se a nor disposa and aw or release conceptor the distriction of the dist	, apron, b n-combus il. ay from s ase if it c litions wa residue. duct. Kee andling. E / clean-u direct sur 40°C (12	stible spill o an be arrant Avoid



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	,	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd	
8.2	Ventilation & Engineering Controls:	Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated find handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, ey station).	
8.3	Respiratory Protection:	In instances where vapors or sprays of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia.)
8.4	Eye Protection:	Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended.	
8.5	Hand Protection:	Wear protective, chemical-resistant gloves (e.g., neoprene) when using or handling this product.	
8.6	Body Protection:	A chemical resistant apron and/or protective clothing are recommended when handling or using this product.	
		9. PHYSICAL & CHEMICAL PROPERTIES	
9.1	Appearance:	Clear liquid	
9.2	Odor:	Odorless	
9.3	Odor Threshold:	0.29 to 0.98 ppm (Nitric Acid)	
9.4	pH:	1.2	
9.5	Melting Point/Freezing Point:	NA NA	
9.6	Initial Boiling Point/Boiling Range:	> 100 °C (> 212 °F)	
9.7	Flashpoint:	Wax: 207 °C (405 °F) COC	
9.8	Upper/Lower Flammability Limits:	NA	
9.9	Vapor Pressure:	NA	
9.10	Vapor Density:	< 1.0 (air = 1.0)	
9.11	Relative Density:	1.017	
9.12	Solubility:	Complete (water)	
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:	Evaporation Rate: < 1.0 (ethyl ether = 1.0)	
		10. STABILITY & REACTIVITY	
10.1	Stability:	Stable at normal temperatures.	
10.2	Hazardous Decomposition Products:	Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenide. decomposition may produce selenium, nitrogen, phosphoric and copper oxides.	Thern
10.3	Hazardous Polymerization:	Will not occur.	
10.4	Conditions to Avoid:	Excessive heat, shock, friction.	
10.5	Incompatible Substances:	Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustible	Orna
	·	materials, most metals.	orgu
		11. TOXICOLOGICAL INFORMATION	
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: NO	
11.2	Toxicity Data:	Cupric Sulfate: LD ₅₀ (oral, rat) = 300 mg/kg	
11.3	Acute Toxicity:	See Section 2.4	
11.4	Chronic Toxicity:	See Section 2.5	
11.5	Suspected Carcinogen:	Selenious Acid is listed by IARC on Group 3 (not classifiable as to its carcinogenicity to humans)	
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.	
11.7	Reproductive Toxicity: Irritancy of Product:	This product is not reported to cause reproductive effects in humans.	
11.7	Biological Exposure Indices:	See Section 4.2	
11.9	Physician Recommendations:	NE This product contains Selenious Acid and is potentially fatal if ingested even in small amounts. 24-hour admission	n sho
		be considered in asymptomatic or minimally symptomatic patients as delayed toxic effects including pulmonary and multi-organ failure may occur. 24/7 medical toxicology consultation is available at +1 (855) 281-1742.	y ede



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10.1	Environmental Ot-1:33: ::	12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	There are no specific data available for this product.
12.2	Effects on Plants & Animals:	There are no specific data available for this product.
12.3	Effects on Aquatic Life:	Very toxic to aquatic life with long lasting effects.
		13. DISPOSAL CONSIDERATIONS
13.1	Waste Disposal:	Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriat disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, an federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage and disposal of hazardous waste must be provided by a licensed facility or waste hauler.
13.2	Special Considerations:	U.S. EPA Hazardous Waste – Characteristic - Corrosive (D002), Characteristic - Toxic (D010)
		14. TRANSPORTATION INFORMATION
		nber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.
14.1	49 CFR (GND):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
4.2	IATA (AIR):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)
14.3	IMDG (OCN):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
14.4	TDGR (Canadian GND):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
4.5	ADR/RID (EU):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
4.6	SCT (MEXICO):	UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO NITRICO), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)
14.7	ADGR (AUS):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
		15. REGULATORY INFORMATION
15.1	SARA Reporting Requirements	
15.2	SARA TPQ:	302 TPQ (Nitric Acid): 1,000 lbs (454 kg)
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.
15.4	CERCLA Reportable Quantity:	Selenious Acid: 10 lbs (4.54 kg); Nitric Acid: 1,000 lbs (454 kg); Cupric Sulfate: 10 lbs (4.54 kg)
15.5	Other Federal Requirements:	NA
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR. 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 Class E (Corrosive Material). WHMIS Class D1 (Materials Causing Immediate and Serious Toxic Effects).
15.7	State Regulatory Information:	Selenious Acid is found on the following state criteria lists: Florida Toxic Substances List (FL), Massachusetts Hazardou Substances List (MA), Minnesota Hazardous Substances List (MN), Pennsylvania Right-to-Know List (PA), ar Wisconsin Hazardous Substances List (WI). Nitric Acid is found on the following state criteria lists: FL, MA, MN, New Jersey Right-to-Know List (NJ), PA, ar 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 Substance List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardou Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvan Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). The 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 .
15.8	Other Requirements:	This product is found on the following inventory lists: Australia - AICS, China – IECSC, Europe – ELINCS/EINEC,



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		16. OTHER INFO	ORMATION
16.1	Other Information:	ORGANS THROUGH PROLONGED OR REPELASTING EFFECTS. Obtain, read, and dust/mist/fume/vapor/spray. Wash hands and expost eat, drink, or smoke when using this product clothing/ eye protection/ face protection. IF SWA immediately all contaminated clothing. Immediately effort reuse. Specific treatment see section 4 (fit comfortable for breathing. IF IN EYES: Rinse with	EVERE SKIN BURNS OR EYE DAMAGE. MAY CAUSE DAMAGE TO EATED EXPOSURE. VERY TOXIC TO AQUATIC LIFE WITH LONG follow all safety instructions before use. Do not breathe bosed skin areas with soap and warm water thoroughly after handling. Do to the environment. Wear protective gloves/ protective LLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Take off tely rinse with water for several minutes. Wash contaminated clothing rest aid) of this SDS. IF INHALED: Remover person to fresh air and keep the water for several minutes. Remove contact lenses, if present and easy mediately. Specific treatment see section 4 (first aid) of this SDS. Collect
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for Technologies' knowledge, the information conta suitability or completeness is not guaranteed an The information contained herein relates only to t	OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other applicability to this product. To the best of ShipMate's & Birchwood ined herein is reliable and accurate as of this date; however, accuracy, and no warranties of any type, either expressed or implied, are provided. he specific product(s). If this product(s) is combined with other materials, Data may be changed from time to time. Be sure to consult the latest
16.4	Prepared for:	Birchwood Technologies 7900 Fuller Road Eden Prairie, MN 55344 USA Tel: +1 (952) 937-7900 Fax: +1 (952) 937-7979 http://www.birchwoodtechnologies.com	BIRCHWOOD® TECHNOLOGIES
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	ShipMate Dangerous Goods Training & Consulting



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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

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

EXPOSURE LIMITS IN AIR:

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

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

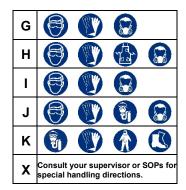
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С			
D			
Е			
F		TT.	





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

HAZARD RATINGS:

0	Minimal Hazard	FLAMMABILITY		
1	Slight Hazard	\		
2	Moderate Hazard	REACTIVITY		
3	Severe Hazard			
4	Extreme Hazard			
ACD Acidic ALK Alkaline				
COR	Corrosive	/ \ \ \ \		
W Use No Water OX Oxidizer		HEALTH 💉		
		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 _{lo}	Lowest dose to cause a symptom				
TCLo	Lowest concentration to cause a symptom				
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects				
TC, TCo, LCio, & LCo					
IARC	International Agency for Research on Cancer National Toxicology Program				
NTP					
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	EPA U.S. Environmental Protection Agency					
DSL	DSL Canadian Domestic Substance List					
NDSL	Canadian Non-Domestic Substance List					
PSL	Canadian Priority Substances List					
TSCA	TSCA U.S. Toxic Substance Control Act					
EU	EU European Union (European Union Directive 67/548/EEC)					
WGK	GK Wassergefährdungsklassen (German Water Hazard Class)					

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	(4)	③	(3)	\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					*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment