BIRCHWOOD

SAFETY DATA SHEET

Page 1 of 6 **BTI-021**

Prep	ared to OSHA, ACC, A	NSI, NOHSC, WHI	VIS, GHS & 12	272/2008/EC S	standards		SDS	Revisi	on: 2.0		SDS	Revisi	on Date	: 3/14/2017
				<u>T & COM</u>	PANY	IDE	NTIF	-ICA	TION					
1.1	Product Name:	ANTIQUE	: BLACK ^e	° M20										
1.2	Chemical Name:	Acid Mixture												
1.3	Synonyms:	720050, 72005	0INT, 720051	, 720051INT, 7	20052, 72	200521	NT, 72	20058,	720058	INT				
1.4	Trade Names:	Antique Black®	' M20											
1.5	Product Use:	Blackening So	lution for Brass	s & Copper										
1.6	Distributor's Name:	Birchwood Lab	oratories LLC											
1.7	Distributor's Address:	7900 Fuller Ro	ad, Eden Prair	rie, MN 55344	USA									
1.8	Emergency Phone:	ChemTrec +	1 (800) 424-9	9300 / +1 (70	3) 527-3	887 o	r Pois	son Co	ontrol	Cent	er +1	(855)	281-1	742
1.9	Business Phone / Fax:	+1 (952) 937-												
			2. HA		DENT	IFIC		ON						
2.1 Hazard Identification: A This product is classified as a hazardous substance and as dangerous goods according to the				to the	classifi	cation criteria o								
		[NOHSC: 1088												
			ORGANS TH	ROUGH PROI										MAY CAUSE AQUATIC LIFE
		Classification:			ion1B; S1	TOT RE	E 2; Cł	nronic /	Aquatic	Toxic	ity 1			
2.2	Label Elements:	Hazard Staten										and ev	/e	^
		damage. H37 Very toxic to a				ugh pr	olonge	ed or re	epeated	expo	sure.	H410	-	
		Precautionary												\sim
				tions have bee										X
		clothing/ comb		eye protectio										Pau
				CENTER or d										<≝ ど>
		cautiously wit												\sim
				case of fire: U										X
		materials to e			pillage.	P501 -	– Disp	ose of	conten	ts/ co	ntaine	er to a	n	Nr.
		approved was	te disposal pla	nt.										\ \
2.3	Other Warnings:	In the event of		or modical ing		ving th	io prov	duct n	0000 00	ontoot	o nh	voioion	or loop	Il poison contro
		center, who ma												
					manalaot	uror, u				00. 1		Julion		ormaron.
		3. CC	MPOSIT	ON & ING	GREDI	ENT	INF	ORM	ΙΑΤΙ	ON				
									EXPOS		MITS IN	I AIR (m	g/m³)	
						AC	GIH		NOHSC			OSHA		
						p	pm		ppm			ppm		
CHEMI	CAL NAME(S)	CAS No.	RTECS No.											
	••	CAS NO.	KILCOND.		9/	ті у	STEI	ES-	ES-	ES-	DEI			OTHER
WATE	R	7732-18-5	ZC0110000	EINECS No. 231-791-2	% 60-100	TLV NF		TWA	ES- STEL	PEAK	PEL NF	STEL	IDLH NF	OTHER
		7732-18-5	ZC0110000	231-791-2	% 60-100			TWA	ES- STEL	PEAK		STEL		OTHER
DUCC		7732-18-5	ZC0110000 TB6300000					TWA	ES- STEL	PEAK		STEL		OTHER
PHOS	PHORIC ACID	7664-38-2	TB6300000	231-791-2	60-100 7-13	NE	NE	TWA NF	ES- STEL I	NF	NE	STEL NE	NE	OTHER
	PHORIC ACID	7664-38-2 Metal Corrosio 7783-00-8	TB6300000 n 1; Skin Corrosi VS7175000	231-791-2 231-633-2 on1B; H290, H3 231-974-7	60-100 7-13 14 1-5	NE (1) (0.2)	(3)	TWA NF (0.2)	ES- STEL I NF NF	NF NF	NE NA (0.2)	STEL NE NA	NE 1000 NA	
		7664-38-2 Metal Corrosio 7783-00-8 Acute Toxicity-	TB6300000 n 1; Skin Corrosi VS7175000	231-791-2 231-633-2 ion1B; H290, H3	60-100 7-13 14 1-5	NE (1) (0.2)	(3)	TWA NF NF (0.2)	ES- STEL I NF NF	NF NF NF NF Aquat	NE NA (0.2)	STEL NE NA	NE 1000 NA	
SELE	PHORIC ACID NIOUS ACID	7664-38-2 Metal Corrosio 7783-00-8 Acute Toxicity- 7758-99-8	TB6300000 n 1; Skin Corrosi VS7175000 Inh 3; Acute Tox NA	231-791-2 231-633-2 on1B; H290, H3 231-974-7	60-100 7-13 14 1-5	NE (1) (0.2)	(3)	TWA NF (0.2)	ES- STEL I NF NF	NF NF	NE NA (0.2)	STEL NE NA	NE 1000 NA	
SELEI	PHORIC ACID	7664-38-2 Metal Corrosio 7783-00-8 Acute Toxicity- 7758-99-8 Acute Toxicity	TB6300000 n 1; Skin Corrosi VS7175000 Inh 3; Acute Tox NA 4; H302	231-791-2 231-633-2 ion1B; H290, H3 231-974-7 icity-Oral 3; STO	60-100 7-13 14 1-5 T RE 2; Ac 1-5	NE (1) (0.2) :ute Aqu (1)	NE (3) NA Jatic To NA	TWA NF (0.2) oxicity 1; NF	ES- STEL I NF NF NF Chronic NF	NF NF Aquat	NE NA (0.2) ic Toxi (1)	STEL NE NA NA city 1; H NA	NE 1000 NA 1301, H3 1000	
SELEI	PHORIC ACID NIOUS ACID	7664-38-2 Metal Corrosio 7783-00-8 Acute Toxicity- 7758-99-8 Acute Toxicity 13106-76-8	TB6300000 n 1; Skin Corrosi VS7175000 Inh 3; Acute Tox NA 4; H302 NA	231-791-2 231-633-2 ion1B; H290, H3 231-974-7 icity-Oral 3; STO NA 236-031-3	60-100 7-13 14 1-5 IT RE 2; Ac 1-5	NE (1) (0.2) cute Aqu (1) (10)	NE (3) Jatic To NA NA	TWA NF (0.2) oxicity 1; NF	ES- STEL I NF I NF I Ohronic I NF I NF I	NF NF Aquat	NE NA (0.2) ic Toxi (1) NA	STEL NE NA NA city 1; H NA	NE 1000 NA 1301, H3 1000 NA	31, H400, H410
SELEI	PHORIC ACID NIOUS ACID IC SULFATE	7664-38-2 Metal Corrosio 7783-00-8 Acute Toxicity- 7758-99-8 Acute Toxicity 13106-76-8 Acute Toxicity	TB6300000 n 1; Skin Corrosi VS7175000 Inh 3; Acute Tox NA 4; H302 NA 4; Skin Irritation 3	231-791-2 231-633-2 ion1B; H290, H3 231-974-7 icity-Oral 3; STO NA 236-031-3 2; Eye Irritation 2	60-100 7-13 14 1-5 1-5 1-5 1-5 1-5 1-5	NE (1) (0.2) (1) (1) (10) Farget C	NE (3) NA Jatic To NA NA Drgan T	TWA NF (0.2) xxicity 1; NF NF	ES- STEL I NF I NF I Chronic I NF I Single Ex	NF NF NF Aquat NF NF NF	NE NA (0.2) ic Toxi (1) NA e 3; H3	STEL NE NA NA city 1; H NA NA 302, H3	NE 1000 NA 1301, H3 1000 NA 15, H319	31, H400, H410
SELEI CUPR AMMC	PHORIC ACID NIOUS ACID IC SULFATE	7664-38-2 Metal Corrosio 7783-00-8 Acute Toxicity- 7758-99-8 Acute Toxicity 13106-76-8 Acute Toxicity 7733-02-0	TB6300000 n 1; Skin Corrosi VS7175000 Inh 3; Acute Tox NA 4; H302 NA 4; Skin Irritation 3 QR9600000	231-791-2 231-633-2 ion1B; H290, H3 231-974-7 icity-Oral 3; STO NA 236-031-3 2; Eye Irritation 2 232-104-9	60-100 7-13 14 1-5 T RE 2; Ac 1-5 1-5 1-5 2; Specific 1 0.1-1	NE (1) (0.2) cute Aqu (1) (10) Farget C (0.1)	NE (3) (3) (3) (3) (3) (3) (3) (3) (3) (3)	TWA NF (0.2) xxicity 1; NF Oxicity 1; NF	ES- STEL I NF I NF I Chronic I NF I Single Ex I	NF NF NF Aquat NF NF Qosure	NE NA (0.2) ic Toxi (1) NA e 3; H3 (1)	STEL NE NA NA city 1; H NA NA 302, H3 NA	NE 1000 NA 1301, H3 1000 NA 15, H319 NA	31, H400, H410
SELEI CUPR AMMC	PHORIC ACID NIOUS ACID IC SULFATE DNIUM MOLYBDATE	7664-38-2 Metal Corrosio 7783-00-8 Acute Toxicity- 7758-99-8 Acute Toxicity 13106-76-8 Acute Toxicity 7733-02-0	TB6300000 n 1; Skin Corrosi VS7175000 Inh 3; Acute Tox NA 4; H302 NA 4; Skin Irritation 3 QR9600000	231-791-2 231-633-2 ion1B; H290, H3 231-974-7 icity-Oral 3; STO NA 236-031-3 2; Eye Irritation 2	60-100 7-13 14 1-5 T RE 2; Ac 1-5 1-5 1-5 2; Specific 1 0.1-1	NE (1) (0.2) cute Aqu (1) (10) Farget C (0.1)	NE (3) (3) (3) (3) (3) (3) (3) (3) (3) (3)	TWA NF (0.2) xxicity 1; NF Oxicity 1; NF	ES- STEL I NF I NF I Chronic I NF I Single Ex I	NF NF NF Aquat NF NF Qosure	NE NA (0.2) ic Toxi (1) NA e 3; H3 (1)	STEL NE NA NA city 1; H NA NA 302, H3 NA	NE 1000 NA 1301, H3 1000 NA 15, H319 NA	31, H400, H410
SELEI CUPR AMMC ZINC S	PHORIC ACID NIOUS ACID IC SULFATE DNIUM MOLYBDATE SULFATE	7664-38-2 Metal Corrosio 7783-00-8 Acute Toxicity- 7758-99-8 Acute Toxicity 13106-76-8 Acute Toxicity 7733-02-0 Acute Toxicity	TB6300000 n 1; Skin Corrosi VS7175000 Inh 3; Acute Tox NA 4; H302 NA 4; Skin Irritation 2 QR9600000 4; Eye Damage 4.	231-791-2 231-633-2 on1B; H290, H3: 231-974-7 icity-Oral 3; STO NA 236-031-3 2; Eye Irritation 2 232-104-9 1; Acute Aquatic FIRST AI	60-100 7-13 14 1-5 T RE 2; Ac 1-5 1-5 2; Specific 7 0.1-1 Toxicity 1; D ME/	NE (1) (0.2) ute Aqu (1) (10) Farget C (0.1) Chronic	NE (3) (3) (3) (A) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	TWA NF (0.2) xxicity 1; NF oxicity-3; NF ic Toxic	ES- STEL I NF NF Chronic NF Single Ex NF ity 1; H30	NF NF NF Aquat NF NF NF NF 02, H3	NE NA (0.2) ic Toxi (1) NA e 3; H3 (1) 18, H4	STEL NE NA NA city 1; H NA 00, H3 NA 00, H4	NE 1000 NA 1301, H3 1000 NA 15, H319 NA 0	31, H400, H410 , H335
SELEI CUPR AMMC	PHORIC ACID NIOUS ACID IC SULFATE DNIUM MOLYBDATE	7664-38-2 Metal Corrosio 7783-00-8 Acute Toxicity- 7758-99-8 Acute Toxicity 13106-76-8 Acute Toxicity 7733-02-0 Acute Toxicity Ingestion:	TB6300000 n 1; Skin Corrosi VS7175000 Inh 3; Acute Tox NA 4; H302 NA 4; Skin Irritation 2 QR9600000 4; Eye Damage 1 4. Do not induce victim's head I	231-791-2 231-633-2 on1B; H290, H3; 231-974-7 icity-Oral 3; STO NA 236-031-3 2; Eye Irritation 2 232-104-9 1; Acute Aquatic FIRST AI owered (forwa	60-100 7-13 14 1-5 T RE 2; Ac 1-5 1-5 1-5 0.1-1 Toxicity 1; D ME +1 (855) ard) to kea	NE (1) (0.2) (1) (10) (10) (10) (0.1) Chronic (0.1) Chronic (0.1) 281-1	NE (3) NA Jatic To NA NA Drgan T NA CAquat RES 742 fc	TWA NF (0.2) xxicity 1; NF oxicity-1; NF ic Toxic or eme	ES- STEL I NF NF Chronic NF Single Ex NF ity 1; H30 rgency	NF N	NE NA (0.2) ic Toxi (1) NA e 3; H3 (1) 18, H4 cal ad	STEL NE NA City 1; H NA City 1; H NA NA 00, H3 NA 00, H4 Vice. I	NE 1000 NA 1301, H3 1000 NA 15, H319 NA 0	31, H400, H410 , H335
SELEI CUPR AMMC ZINC S	PHORIC ACID NIOUS ACID IC SULFATE DNIUM MOLYBDATE SULFATE	7664-38-2 Metal Corrosio 7783-00-8 Acute Toxicity- 7758-99-8 Acute Toxicity 13106-76-8 Acute Toxicity 7733-02-0 Acute Toxicity Ingestion: Eyes:	TB6300000 n 1; Skin Corrosi VS7175000 Inh 3; Acute Tox NA 4; H302 NA 4; Skin Irritation 2 QR9600000 4; Eye Damage 2 4. Do not induce victim's head I transport if any Remove and co	231-791-2 231-633-2 on1B; H290, H3; 231-974-7 icity-Oral 3; STO NA 236-031-3 2; Eye Irritation 2 232-104-9 1; Acute Aquatic FIRST AI owered (forwar symptoms not discard contact	60-100 7-13 14 1-5 T RE 2; Ac 1-5 1-5 1-5 1-5 0.1-1 Toxicity 1; D ME +1 (855) ard) to ker ted. t lenses i	NE (1) (ute Aquing) (10) (10) Farget C (0.1) Chronic ASUI 281-1 ep von f worn	NE (3) NA Jatic To NA NA Organ T NA CAquat RES 742 fc nit fror and f	TWA NF NF vxicity 1; NF oxicity 1; NF oxicity 5; NF or eme m ente lush e;	ES- STEL I NF NF Chronic NF Single Ex NF ity 1; H30 rgency ring the yes with	PEAK NF NF Aquat NF Aquat NF Operation NF Operation	NE NA (0.2) ic Toxi (1) NA a 3; H3 (1) 18, H4 cal ad s. Cal	STEL NE NA NA city 1; I NA 00, H3 00, H41 vice. If I 911	NE 1000 NA 1301, H3 1000 NA 15, H319 NA 0	31, H400, H410
SELEI CUPR AMMC ZINC S	PHORIC ACID NIOUS ACID IC SULFATE DNIUM MOLYBDATE SULFATE	7664-38-2 Metal Corrosio 7783-00-8 Acute Toxicity- 7758-99-8 Acute Toxicity 13106-76-8 Acute Toxicity 7733-02-0 Acute Toxicity Ingestion: Eyes:	TB6300000 n 1; Skin Corrosi VS7175000 Inh 3; Acute Tox NA 4; H302 NA 4; Skin Irritation 2 [QR9600000 4; Eye Damage 2 4. Do not induce victim's head I transport if any Remove and co minutes. Seek	231-791-2 231-633-2 on1B; H290, H3; 231-974-7 icity-Oral 3; STO NA 236-031-3 2; Eye Irritation 2 232-104-9 1; Acute Aquatic FIRST AI owered (forwar symptoms not discard contact immediate me	60-100 7-13 14 1-5 T RE 2; Ac 1-5 1-5 1-5 0.1-1 Toxicity 1; D MEL +1 (855) ard) to ker ted. t lenses i dical atter	NE (1) (ute Aquidation (1)) (10) Farget C (0.1) Chronic 281-1 ep von f worn ftion w	NE (3) (3) (3) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A	TWA NF NF (0.2) xicity 1; NF oxicity-1; NF oxicity-1; or eme m ente lush e; one rin;	ES- STEL I NF NF NF Chronic NF Single Ex NF ity 1; H30 rgency ring the yes with sing eye	PEAK NF NF Aquat NF Aquat NF D2, H3 medic Hung an large D2, H3	NE NA (0.2) ic Toxi (1) NA a 3; H3 (1) 18, H4 cal ad s. Cal	STEL NE NA NA city 1; H NA city 1; H NA 00, H4 00, H4 1 911 vice. If 1 911 ounts o	NE 1000 NA 1301, H3 1000 NA 15, H319 NA 0	31, H400, H410 31, H400, H410 , H335 ng occurs, keep rgency medica
SELEI CUPR AMMC ZINC S	PHORIC ACID NIOUS ACID IC SULFATE DNIUM MOLYBDATE SULFATE	7664-38-2 Metal Corrosio 7783-00-8 Acute Toxicity- 7758-99-8 Acute Toxicity 13106-76-8 Acute Toxicity 7733-02-0 Acute Toxicity Ingestion: Eyes: Skin:	TB6300000 n 1; Skin Corrosi VS7175000 Inh 3; Acute Tox NA 4; H302 NA 4; Skin Irritation 2 QR9600000 4; Eye Damage 7 4. Do not induce victim's head I transport if any Remove and co minutes. Seek Remove conta	231-791-2 231-633-2 on1B; H290, H3; 231-974-7 icity-Oral 3; STO NA 236-031-3 2; Eye Irritation 2 232-104-9 1; Acute Aquatic FIRST AI owered (forwar symptoms not discard contact immediate me	60-100 7-13 14 1-5 1-5 1-5 1-5 1-5 1-5 1-5 0.1-1 Toxicity 1; DME/ +1 (855) ird) to key ted. t lenses i dical atter ing and v	NE (1) (0.2) (1) (10) (10) (10) (0.1) Chronic (0.1) Chronic 281-1 ep von f worn ntion w wash e	NE (3) (3) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A	TWA NF NF (0.2) xicity 1; NF oxicity-1; NF oxicity-1; NF oxicity-1; or eme m ente lush e; one ring ed skin	ES- STEL I NF NF Chronic NF Single Ex NF Single Ex NF ity 1; H30 rgency ring the yes with sing eye with la	PEAK NF NF Aquat Aquat NF NF MF NF D2, H3 medicic lung arge a arge a	NE NA (0.2) ic Toxi (1) NA a 3; H3 (1) 18, H4 cal ad s. Cal	STEL NE NA NA city 1; H NA city 1; H NA 00, H4 00, H4 1 911 vice. If 1 911 ounts of	NE 1000 NA 1301, H3 1000 NA 15, H319 NA 0	31, H400, H410 31, H400, H410 , H335 ng occurs, keep rgency medica
SELEI CUPR AMMC ZINC S	PHORIC ACID NIOUS ACID IC SULFATE DNIUM MOLYBDATE SULFATE	7664-38-2 Metal Corrosio 7783-00-8 Acute Toxicity- 7758-99-8 Acute Toxicity 13106-76-8 Acute Toxicity 7733-02-0 Acute Toxicity Ingestion: Eyes: Skin: Inhalation:	TB6300000 n 1; Skin Corrosi VS7175000 Inh 3; Acute Tox NA 4; H302 NA 4; Skin Irritation 2 QR9600000 4; Eye Damage 2 4 . Do not induce victim's head I transport if any Remove and c minutes. Seek Remove conta medical attenti	231-791-2 231-633-2 in1B; H290, H3: 231-974-7 icity-Oral 3; STO NA 236-031-3 2; Eye Irritation 2 232-104-9 1; Acute Aquatic FIRST AII owered (forwar symptoms not discard contact immediate me- immediate	60-100 7-13 14 1-5 1-5 1-5 1-5 1-5 1-5 1-5 0.1-1 Toxicity 1; D ME +1 (855) ord) to ket ted. t lenses i dical atter ing and v ring, swel	NE (1) (0.2) (1) (10) (10) (10) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.2) (0.2) (0.2) (0.2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	NE (3) (3) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A	TWA NF NF (0.2) xicity 1; NF oxicity-1; NF oxicity-1; NF oxicity-1; or eme m ente lush e; one rin: ed skin sores d	ES- STEL I NF NF Chronic NF Single Ex NF Single Ex NF ity 1; H30 rgency ring the yes with sing eye with la levelop.	PEAK NF NF NF Aquat NF NF NF D2, H3 medic blung coss. arge a	NE NA (0.2) ic Toxi (1) NA a 3; H3 (1) 18, H4 cal add s. Cal amour	STEL NE NA NA city 1; H NA city 1; H NA 00, H4 00,	NE 1000 NA 1301, H3 1000 NA 15, H319 NA 16, H319 NA 15, H319 NA 0 4000 5 vomiting for emeter of water soap a	31, H400, H410 31, H335 , H335 ng occurs, keep ergency medica



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

SDS Revision: 2.0

SDS Revision Date: 3/14/2017

		4. FIRST AID MEASURES – cont'd								
4.2	Effects of Exposure:	Eves: Severe or permanent eye damage.								
		Skin: Burns upon direct contact.								
		Ingestion: Severe burns of mouth, throat, stomach.								
		Inhalation: Severe irritation or burns in respiratory tract and mucous me	embranes.	Possible lun	ng damage.					
4.3	Symptoms of Overexposure:	Eves: Redness, burning, irritation, and swelling around eyes								
		Skin: Redness, burning, itching, rash, blistering of skin.								
		Ingestion: Nausea, vomiting, severe abdominal pain.								
		Inhalation: Coughing, wheezing, swelling of throat, irritation in mucous	membranes	s, difficulty b	reathing.					
4.4	Acute Health Effects:	May be harmful if inhaled. Material is extremely destructive to the tissue of			es and upper	respiratory				
		tract. May be harmful if swallowed. Causes burns. May be harmful if absor	rbed throug	n skin.						
4.5 4.6	Chronic Health Effects: Target Organs:	May damage the nervous system, kidney and/or liver.								
4.0		Eyes, skin, nervous system, kidneys, liver, respiratory system.								
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions, and disorders of the target organs (eyes, skin, and respiratory system) or impaired kidney function	HEALTH			3				
		may be more susceptible to the effects of this substance. 1	FLAMM	ABILITY		0				
			PHYSIC	AL HAZAF	RDS	2				
			PROTEC	TIVE EQU	IIPMENT	н				
			EYES		LUNGS					
4.8	Notes to Physician:	This product contains <u>Selenious Acid</u> and is potentially fatal if ingested	-	-		admission				
		should be considered in asymptomatic or minimally symptomatic patients								
		edema and multi-organ failure may occur. 24/7 medical toxicology consulta								
		5. FIREFIGHTING MEASURES								
5.1	Fire & Explosion Hazards:	Non-flammable. May react with metals to release hydrogen gas, which of	can form e	xplosive mix	xtures					
		with air. May intensity fire; oxidizer. Keep/Store away from clothing/ comb								
5.2	Extinguishing Methods:	Use fire-extinguishing media appropriate for surrounding materials.								
5.3	Firefighting Procedures:	As with any fire, firefighters should wear appropriate protective equipment	nt including	a MSHA/N	IIOSH					
		approved or equivalent self-contained breathing apparatus (SCBA) and p			t fires					
		as for surrounding materials. Hazardous decomposition products r								
		degradation may produce oxides of carbon, phosphorous, selenium an	nd/or nitroge	en, hydroca	rbons	2				
		degradation may produce oxides of carbon, phosphorous, selenium an and/or derivatives. Fire should be fought from a safe distance. Keep conta	nd/or nitroge ainers cool	en, hydroca until well aft	rbons er the	2				
		degradation may produce oxides of carbon, phosphorous, selenium an and/or derivatives. Fire should be fought from a safe distance. Keep conta fire is out. Use water spray to cool fire-exposed surfaces and to protect	nd/or nitroge ainers cool personal.	en, hydroca until well aft Fight fire up	rbons er the owind.	2				
		degradation may produce oxides of carbon, phosphorous, selenium an and/or derivatives. Fire should be fought from a safe distance. Keep conta fire is out. Use water spray to cool fire-exposed surfaces and to protect Prevent runoff from fire control or dilution from entering sewers, drains, c	nd/or nitroge ainers cool personal.	en, hydroca until well aft Fight fire up	rbons er the owind.	2				
		degradation may produce oxides of carbon, phosphorous, selenium an and/or derivatives. Fire should be fought from a safe distance. Keep conta fire is out. Use water spray to cool fire-exposed surfaces and to protect Prevent runoff from fire control or dilution from entering sewers, drains, c natural waterway.	nd/or nitroge ainers cool personal. drinking wat	en, hydroca until well aft Fight fire up	rbons er the owind.	2				
		degradation may produce oxides of carbon, phosphorous, selenium an and/or derivatives. Fire should be fought from a safe distance. Keep conta fire is out. Use water spray to cool fire-exposed surfaces and to protect Prevent runoff from fire control or dilution from entering sewers, drains, or natural waterway.	nd/or nitroge ainers cool personal. drinking wat	en, hydroca until well aft Fight fire up er supply, c	Irbons er the owind. or any	2				
6.1	Spills:	degradation may produce oxides of carbon, phosphorous, selenium an and/or derivatives. Fire should be fought from a safe distance. Keep conta fire is out. Use water spray to cool fire-exposed surfaces and to protect Prevent runoff from fire control or dilution from entering sewers, drains, or natural waterway. 6. ACCIDENTAL RELEASE MEASURE Before cleaning any spill or leak, individuals involved in spill cleanup	ad/or nitroge ainers cool personal. drinking wat	en, hydroca until well aft Fight fire up er supply, c ar appropria	arbons er the owind. or any ate Personal					
6.1	Spills:	degradation may produce oxides of carbon, phosphorous, selenium an and/or derivatives. Fire should be fought from a safe distance. Keep conta fire is out. Use water spray to cool fire-exposed surfaces and to protect Prevent runoff from fire control or dilution from entering sewers, drains, or natural waterway. 6. ACCIDENTAL RELEASE MEASURE Before cleaning any spill or leak, individuals involved in spill cleanup Equipment (PPE). Use safety glasses or safety goggles and face shield;	ad/or nitroge ainers cool personal. drinking wat	en, hydroca until well aft Fight fire up er supply, c ar appropria	arbons er the owind. or any ate Personal					
6.1	Spills:	degradation may produce oxides of carbon, phosphorous, selenium an and/or derivatives. Fire should be fought from a safe distance. Keep conta fire is out. Use water spray to cool fire-exposed surfaces and to protect Prevent runoff from fire control or dilution from entering sewers, drains, or natural waterway. 6. ACCIDENTAL RELEASE MEASURE Before cleaning any spill or leak, individuals involved in spill cleanup Equipment (PPE). Use safety glasses or safety goggles and face shield; apron, boots, etc.) to prevent skin contact.	d/or nitroge ainers cool personal. drinking wat ES o must wea t use gloves	en, hydroca until well aft Fight fire up er supply, c ar appropria	ate Personal	hing (e.g.				
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards

SDS Revision: 2.0

SDS Revision Date: 3/14/2017

.8.1	Exposure Limits:		ACGIH NOHSC					OSHA			OTHER
	ppm (mg/m ³)	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	
		PHOSPHORIC ACID	(1)	(3)	NF	NF	NF	NA	NA	1000	
		SELENIOUS ACID	(0.2)	NA	(0.2)	NF	NF	(0.2)	NA	NA	
		CUPRIC SULFATE	(1)	NA	NF	NF	NF	(1)	NA	1000	
		AMMONIUM MOLYBDATE	(10)	NA	NF	NF	NF	NA	NA	NA	
		ZINC SULFATE	(0.1)	NA	NF	NF	NF	(1)	NA	NA	
8.2	Ventilation & Engineering Controls:	Use local or general exhaust ver handling of this product. Ensure station).									
8.3	Respiratory Protection:	use only protection authorized by	n instances where vapors or sprays of this product are generated, and respiratory protection is needed, se only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian AS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or ustralia.								
8.4	Eye Protection:	Safety glasses with side shields shield is also recommended.	must be ι	ised whe	en handling	g or usin	g this pro	duct. A p	orotectiv	e face	86
8.5	Hand Protection:	Wear protective, chemical-resista	nt gloves	(e.g., ne	oprene) wh	ien using	or handlii	ng this pr	oduct.		
8.6	Body Protection:	A chemical resistant apron and/ product.	or protect	ve cloth	ing are re	commen	ded when	handling) or usin	g this	
		9. PHYSICAL	& CH	EMIC	AL PR	OPER	TIES			•	
9.1	Appearance:	Clear, blue liquid									
9.2	Odor:	Odorless									
9.3	Odor Threshold:	NA									
9.4	pH:	< 1.0									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling Range:	> 100 °C (> 212 °F)									
9.7	Flashpoint:	NA									
9.8	Upper/Lower Flammability	NA									
9.9	Limits: Vapor Pressure:	NA									
9.10	Vapor Density:	< 1.0 (air = 1.0)									
9.11	Relative Density:	1.099									
9.12	Solubility:	Complete (water)									
9.13	Partition Coefficient (log Pow):	NA									
9.14	Autoignition Temperature:	NA									
9.15	Decomposition Temperature:	NA									
9.16	Viscosity:	NA									
9.17	Other Information:	Evaporation Rate: < 1.0 (ethyl eth	er = 1.0								
		(out): ou									
		10. STA		Y & R	EACTI	VITY					
10.1	Stability:	Stable at normal temperatures.									
10.2	Hazardous Decomposition Products:	Reaction with organics and stro decomposition may produce sele									
10.3	Hazardous Polymerization:	Will not occur.									
10.4	Conditions to Avoid:	Excessive heat.									
	Incompatible Substances:	Cyanides, water-reactive substa	ncos stro	na redu	triana arrant	s chlorir	nated clea	ners or	sanitizer	s comh	ustible organ



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

SDS Revision: 2.0

SDS Revision Date: 3/14/2017

		11. TOXICOLOGICAL INFORMATION			
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: NO			
11.2	Toxicity Data:	Solution: LD ₅₀ (oral, rat) = 1030 mg/kg; Cupric Sulfate: LD ₅₀ (oral, rat) = 300 mg/kg; Phosphoric Acid: LD ₅₀ (oral, rat) = 1530 mg/kg			
11.3	Acute Toxicity:	See Section 4.4			
11.4	Chronic Toxicity:	See Section 4.5			
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: 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:	See Section 4.2			
11.8	Biological Exposure Indices:	NE			
11.9	Physician Recommendations:	Treat symptomatically.			
		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. <u>Phosphoric Acid</u> : EC_{50} (Daphnia magna, 12h) = 4.6 mg/L			
		13. DISPOSAL CONSIDERATIONS			
13.1	Waste Disposal:	Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate			
13.1	Waste Disposal.	disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and			
		federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage an			
		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			
desc 14.1	criptive information may b 49 CFR (GND):	e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC			
		ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)			
14.2	IATA (AIR):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC			
		ACID), 8, III, LTD QTY (IP VOL \leq 0.5 L)			
14.3	IMDG (OCN):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC 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, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)			
14.5	ADR/RID (EU):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)			
14.6	SCT (MEXICO):	UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO FOSFORICO), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)			
14.7	ADGR (AUS):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)			
		15. REGULATORY INFORMATION			
15.1	SARA Reporting Requirements				
15.2	SARA TPQ:	NA			
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); Cupric Sulfate: 10 lbs (4.54 kg); Phosphoric Acid: 5,000 lbs (2,270 kg)			
15.5	Other Federal Requirements:	NA			
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the MSDS 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 Class E (Corrosive Material). WHMIS Class D1 (Materials Causing Immediate and			



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 3/14/2017 SDS Revision: 2.0 15. REGULATORY INFORMATION – cont'd 15.7 State Regulatory Information: Selenious Acid is found on the following state criteria lists: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), Pennsylvania Right-to-Know List (PA), and Wisconsin Hazardous Substances List (WI). Zinc Sulfate is found on the following state criteria lists: MA, and PA. Phosphoric Acid is found on the following state criteria lists: FL, MA, MN, and PA. No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). Other Requirements: 15.8 NA **16. OTHER INFORMATION** 16.1 Other Information: DANGER! TOXIC IF SWALLOWED. MAY CAUSE SEVERE SKIN BURNS OR EYE DAMAGE. MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE. VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep/Store away from clothing/ combustible materials. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Collect spillage. 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 & Birchwood Technologies' 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: **Birchwood Technologies** 7900 Fuller Road BIRCHWOO Eden Prairie, MN 55344 USA Tel: +1 (952) 937-7900 TECHNOLOGIES Fax: +1 (952) 937-7979 http://www.birchwoodtechnologies.com 16.5 Prepared by: ShipMate, Inc. P.O. Box 787 ShipMate Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Dangerous Goods Fax: +1 (310) 370-5700 Training & Consulting http://www.shipmate.com



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REACTIVITY

SPECIAL PRECAUTIONS

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

SDS Revision: 2.0

SDS Revision Date: 3/14/2017

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:

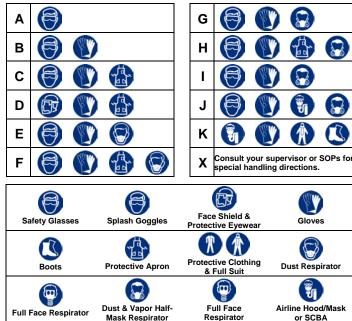
CPR	Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

PERSONAL PROTECTION RATINGS:



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 Minimum temperature required to initiate combustion in air with no other s 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	FLANIMADILITT
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/ 🗙 4
₩	Use No Water	HEALTH
ох	Oxidizer	
TREFOIL	Radioactive	

TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC 50	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{Io}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{io} , LD _{io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC _o , LC _{io} , & LC _o	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TLm	Median threshold limit
log Kow or log Koc	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System				
DOT	U.S. Department of Transportation				
TC	Transport Canada				
EPA	U.S. Environmental Protection Agency				
DSL	Canadian Domestic Substance List				
NDSL	Canadian Non-Domestic Substance List				
PSL	Canadian Priority Substances List				
TSCA	U.S. Toxic Substance Control Act				
EU	European Union (European Union Directive 67/548/EEC)				
WGK	Wassergefährdungsklassen (German Water Hazard Class)				

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

\bigcirc	۲	٢		Ð	(
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			\diamondsuit		
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment