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

SDS Revision: 1.2

SDS Revision Date: 02/21/2017

	ared to OSHA, ACC, ANSI	, NOHSC, WHI	VIIS, 2001/58 8	& 12/2/2008	8/EC Standard	S		SDS	Revisio	n: 1.2		SDS	Revisio	n Date:	02/21/2017
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1.1	Product Name:	ΔΝΤΙΩ	UE BRO	วพท _® (GFI										
1.2	Chemical Name:	Acid Mixtu		<u> </u>	<u> </u>										
1.3	Synonyms:	_	50051, 7500	ารถ											
1.4	Trade Names:	Antique Br)JO											
1.5	Product Use:			ve a golde	en to chocolat	e hrown	color o	n hrae	e hror	176 CC	nner				
1.6	Distributor's Name:		uveau. LLC	ve a golac	ch to chocola	C DIOWII	50101 0	ni bias	i3, DI 01	120, 00	ррсі				
1.7	Distributor's Address:		strial Ave Es	scondido (CA 92029										
1.8	Emergency Phone:	_				703) 53	7_22	97 or	Dois	on C	ontr	ol Co	ntor	_1 /Ω	55) 281-1742
1.9	Business Phone / Fax:	+1 (760) 4		<i>(</i> 0) 424-3	93007 +1 (703) 32	.7-30	67 01	FUIS	UII C	Ontro	JI CE	iiiei	T1 (O	33) 201-1742
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0.1	Tu uu ee e	1			ARDS II										
2.1	Hazard Identification:				hazardous						ods ac	cordin	g to t	he	
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					Toxic if sv		_		_						
					amage to org		igh pro	olonge	d or re	peate	d expo	sure.	H410	-	
					g lasting effe		_								X
					P220 - Keep/ onment. P280										Pa
					1+P310 - IF S										₩ 🖑
					2338 IF IN E										
					ent and easy										•
		container t	to an approv	ed waste	disposal plan	t.									
		3.	COMPO	OSITIO	N & ING	REDI	ENT	INF		/IAT	ON				
									EXPOSURE LIMITS IN AIR (mg/m³)						
							ACGIH NOHSC				OSHA				
							pp	om	ES-	ppm ES-	ES-		ppm	1	-
CHEMICAL NAME(S)															
CHEM	ICAL NAME(S)	CAS No.	RTECS	S No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	TLV	STEL	IDLH	OTHER
	• • • • • • • • • • • • • • • • • • • •	CAS No. 7732-18-5			EINECS No. 231-791-2	% 60-100	TLV NE	STEL NE				TLV NE	STEL NE	IDLH NE	OTHER
WATE	R	7732-18-5	ZC0110	0000	231-791-2	60-100	NE	NE	TWA NF	NF.	PEAK NF	NE	NE	NE	OTHER
WATE	• • • • • • • • • • • • • • • • • • • •	7732-18-5 X 9005-00-9	5 ZC0110	0000 :	231-791-2 500-017-8	60-100 7-13		NE NA	NF NF	NF NF	NF NF	NE NA	NE NA	NE NA	OTHER
WATEI POLYC DERIV	R DXYETHYLENE STEARYL WA	7732-18-5 X 9005-00-9 7664-38-2	ZC0110 NA TB6300	0000 2	231-791-2 500-017-8 231-633-2	60-100	NE	NE	TWA NF	NF.	PEAK NF	NE	NE	NE	OTHER
WATEI POLYC DERIV	R DXYETHYLENE STEARYL WA ATIVES PHORIC ACID	7732-18-5 X 9005-00-9 7664-38-2 Metal Cor	ZC0110 NA TB6300 Trosion 1; Skin C	0000 2 0000 2 0000 2 Corrosion1B; H	231-791-2 500-017-8 231-633-2 1290, H314	7-13 1-5	NE NA (1)	NE NA (3)	NF NF	NF NF	NF NF	NE NA NA	NE NA NA	NE NA 1000	OTHER
WATEI POLYO DERIV	R DXYETHYLENE STEARYL W <i>A</i> ATIVES	7732-18-5 X 9005-00-5 7664-38-2 Metal Cor 10031-43-	ZC0110 NA TB6300 Trosion 1; Skin C	0000 : 0000 : 0000 : Corrosion1B; H	231-791-2 500-017-8 231-633-2 4290, H314 221-838-5	60-100 7-13	NE NA	NE NA	NF NF	NF NF	NF NF	NE NA	NE NA	NE NA	OTHER
POLYC DERIV PHOSE	R DXYETHYLENE STEARYL WA ATIVES PHORIC ACID ER (II) NITRATE, TRIHYDRAT	7732-18-5 X 9005-00-5 7664-38-2 Metal Cor 10031-43- Metal Cor 7783-00-5	D NA TB6300 Trosion 1; Skin C GI7875 Trosion 1; Skin C VS7175	0000 : 0000 : corrosion1B; H 5000 : corrosion1B; H 5000 :	231-791-2 500-017-8 231-633-2 1290, H314 221-838-5 1290, H314 231-974-7	7-13 1-5 1-5	NE NA (1) (1) (0.2)	NE NA (3) NA NA	NF NF NF (0.2)	NF NF NF NF	NF NF NF NF	NE NA NA (1) (0.2)	NA NA NA	NE NA 1000	OTHER
POLYC DERIV PHOSE	R DXYETHYLENE STEARYL WA ATIVES PHORIC ACID	7732-18-5 X 9005-00-9 7664-38-2 Metal Cor 10031-43- Metal Cor 7783-00-5 Acute Tox	D NA TB6300 TGSion 1; Skin C GGSion 1; Skin C	0000 2 0000 2 00000 2 00000 2 00000 2 000001B; H 5000 2 000001B; H	231-791-2 500-017-8 231-633-2 4290, H314 221-838-5 4290, H314 231-974-7 al 3; STOT RE 2;	7-13 1-5 1-5 1-5 Acute Aqual	NE NA (1) (1) (1) (0.2) ic Toxicit	NA (3) NA NA ty 1; Chr	NF NF NF Onic Aqu	NF NF NF NF ATIC TOXIO	NF NF NF NF OITY 1); H	NE NA NA (1) (0.2) 1301, H3	NA NA NA NA 31	NE NA 1000 NA NA	OTHER
WATEI POLYC DERIV PHOSE COPPE	R DXYETHYLENE STEARYL WA ATIVES PHORIC ACID ER (II) NITRATE, TRIHYDRAT	7732-18-5 X 9005-00-5 7664-38-2 Metal Cor 10031-43- Metal Cor 7783-00-5 Acute Tox 1341-49-7	D NA TB6300 Trosion 1; Skin C G GI7875 Trosion 1; Skin C S VS7173 sicity-Inh 3; Acute DQ9200	0000 : 0000 : 000000 : 00000 : 00000 : 00000 : 00000 : 00000 : 00000 : 0000	231-791-2 500-017-8 231-633-2 4290, H314 221-838-5 4290, H314 231-974-7 al 3; STOT RE 2; 215-676-4	7-13 1-5 1-5 1-5 Acute Aqual	NE NA (1) (1) (0.2) ic Toxicit (2.5)	NA (3) NA NA ty 1; Chr	NF NF NF (0.2)	NF NF NF NF	NF NF NF NF	NE NA NA (1) (0.2)	NA NA NA NA 31	NE NA 1000	OTHER
WATEI POLYC DERIV PHOSE COPPE	R DXYETHYLENE STEARYL WA ATIVES PHORIC ACID ER (II) NITRATE, TRIHYDRAT	7732-18-5 X 9005-00-5 7664-38-2 Metal Cor 10031-43- Metal Cor 7783-00-5 Acute Tox 1341-49-7	D NA TB6300 Trosion 1; Skin C G GI7875 Trosion 1; Skin C S VS7173 sicity-Inh 3; Acute DQ9200	0000 : 0000 : 000000 : 00000 : 00000 : 00000 : 00000 : 00000 : 00000 : 0000	231-791-2 500-017-8 231-633-2 4290, H314 221-838-5 4290, H314 231-974-7 al 3; STOT RE 2;	7-13 1-5 1-5 1-5 Acute Aqual	NE NA (1) (1) (0.2) ic Toxicit (2.5)	NA (3) NA NA ty 1; Chr	NF NF NF Onic Aqu	NF NF NF NF ATIC TOXIO	NF NF NF NF OITY 1); H	NE NA NA (1) (0.2) 1301, H3	NA NA NA NA 31	NE NA 1000 NA NA	OTHER
WATEI POLYC DERIV PHOSE COPPE	R DXYETHYLENE STEARYL WA ATIVES PHORIC ACID ER (II) NITRATE, TRIHYDRAT	7732-18-5 X 9005-00-5 7664-38-2 Metal Cor 10031-43- Metal Cor 7783-00-5 Acute Tox 1341-49-7	D NA TB6300 Trosion 1; Skin C G GI7875 Trosion 1; Skin C S VS7173 sicity-Inh 3; Acute DQ9200	0000 2 0000 2 00000 1 00000 1 00000 1 00000 1 00000 2 00000 1 00000 1	231-791-2 500-017-8 231-633-2 1290, H314 221-838-5 1290, H314 231-974-7 al 3; STOT RE 2; 215-676-4 erious Eye Damaç	7-13 1-5 1-5 1-5 Acute Aqual 1-5 1-5 (1-5) 1-5 (1-5) 1-5 (1-5) 1-5 (1-5) 1-5 (1-5)	NE NA (1) (1) (0.2) ic Toxicit (2.5) 1314	NE NA (3) NA NA ty 1; Chri	NF NF NF Onic Aqu	NF NF NF NF ATIC TOXIO	NF NF NF NF OITY 1); H	NE NA NA (1) (0.2) 1301, H3	NA NA NA NA 31	NE NA 1000 NA NA	OTHER
WATEI POLYC DERIV PHOSE COPPE	R DXYETHYLENE STEARYL WA ATIVES PHORIC ACID ER (II) NITRATE, TRIHYDRAT	7732-18-5 X 9005-00-6 7664-38-2 Metal Cor 7783-00-6 Acute Tox DE 1341-49-7 Acute Tox	D NA TB6300 TG500 1; Skin C GI7875 TG500 1; Skin C VS7175 Ricity-Inh 3; Acute BQ9200 Ricity 3; Skin Cor	0000 : 0000 : 00000 : 00000 : 00000 : 00000 : 00000 : 00000 : 00000 : 00000 : 00000 : 00000 : 00000 : 00000 : 00	231-791-2 500-017-8 231-633-2 1290, H314 221-838-5 1290, H314 231-974-7 al 3; STOT RE 2; 215-676-4 erious Eye Damag	7-13 1-5 1-5 1-5 Acute Aquat 1-5 1-15 1-5 1-15 1-5 1-15	NE NA (1) (1) (0.2) ic Toxicit (2.5) 1314	NE NA (3) NA NA ty 1; Chri NA	NF NF NF NF Onic Aqu (2.5)	NF NF NF NF NF NF NF Atic Toxi	NF NA	NA NA (1) (0.2) (3.01, H3 (2.5)	NA NA NA NA NA NA	NE NA 1000 NA NA NA	
WATEI POLYC DERIV PHOSE COPPE SELEN AMMO	R DXYETHYLENE STEARYL WA 'ATIVES PHORIC ACID ER (II) NITRATE, TRIHYDRAT IIIOUS ACID INIUM HYDROGEN DIFLUORI	7732-18-5 X 9005-00-5 7664-38-2 Metal Cor 10031-43- Metal Cor 7783-00-5 Acute Tox 1341-49-7	Do not i	0000 : 0000 : corrosion1B; H 5000 : corrosion1B; H 5000 : te Toxicity-Ora 0000 : trosion 1B; Se 4. F induce voi	231-791-2 500-017-8 231-633-2 1290, H314 221-838-5 1290, H314 231-974-7 al 3; STOT RE 2; 215-676-4 erious Eye Damag	7-13 1-5 1-5 Acute Aquat 1-5 ie 1; H301, i	NE NA (1) (1) (0.2) ic Toxicit (2.5) 1314 SUF 281-17	NE NA (3) NA NA ty 1; Chr NA RES	NF NF NF NF NF COLUMN (0.2) Onic Aqu (2.5)	NF NF NF NF Atic Toxi NA	NF NF NF NF NF NF NF oity 1); H NA	NE NA NA (1) (0.2) (301, H3 (2.5)	NA NA NA 31 NA vice. I	NE NA 1000 NA NA NA	ing occurs, keep
WATEI POLYC DERIV PHOSE COPPE SELEN AMMO	R DXYETHYLENE STEARYL WA 'ATIVES PHORIC ACID ER (II) NITRATE, TRIHYDRAT IIIOUS ACID INIUM HYDROGEN DIFLUORI	7732-18-5 X 9005-00-6 7664-38-2 Metal Cor 7783-00-6 Acute Tox DE 1341-49-7 Acute Tox	Do not ivictim's	0000 2: 0000 1: 000000 1: 0000000000	231-791-2 500-017-8 231-633-2 1290, H314 221-838-5 1290, H314 231-974-7 al 3; STOT RE 2; 215-676-4 erious Eye Damag	60-100 7-13 1-5 1-5 Acute Aquat 1-5 ie 1; H301, i T (855) d) to kee	NE NA (1) (1) (0.2) ic Toxicit (2.5) 1314 SUF 281-17	NE NA (3) NA NA ty 1; Chr NA RES	NF NF NF NF NF COLUMN (0.2) Onic Aqu (2.5)	NF NF NF NF Atic Toxi NA	NF NF NF NF NF NF NF oity 1); H NA	NE NA NA (1) (0.2) (301, H3 (2.5)	NA NA NA 31 NA vice. I	NE NA 1000 NA NA NA	ing occurs, keep
WATEI POLYC DERIV PHOSE COPPE SELEN AMMO	R DXYETHYLENE STEARYL WA 'ATIVES PHORIC ACID ER (II) NITRATE, TRIHYDRAT IIIOUS ACID INIUM HYDROGEN DIFLUORI	7732-18-5 X 9005-00-6 7664-38-2 Metal Cor 7783-00-6 Acute Tox DE 1341-49-7 Acute Tox	Do not ivictim's transpor	0000 2 corrosion1B; H 5000 2 corrosion1B; H 5000 2 rrosion 1B; Se 4. F induce vol head low rt if any syr	231-791-2 500-017-8 231-633-2 4290, H314 221-838-5 4290, H314 231-974-7 al 3; STOT RE 2; 215-676-4 erious Eye Damag IRST AIL miting. Call ered (forward mptoms note	1-5	NE NA (1) (1) (0.2) ic Toxicit (2.5) i314 SUF 281-17 p vom	NA (3) NA NA ty 1; Chr NA RES 742 foit from	NF NF NF Onic Aqu (2.5)	NF NF NF atic Toxi NA	NF NF NF NF NF city 1); H NA	NA NA (1) (0.2) (301, H3 (2.5) cal ad s. Cal	NE NA	NE NA 1000 NA NA NA NA	ing occurs, keepergency medica
WATEI POLYC DERIV PHOSE COPPE SELEN AMMO	R DXYETHYLENE STEARYL WA 'ATIVES PHORIC ACID ER (II) NITRATE, TRIHYDRAT IIIOUS ACID INIUM HYDROGEN DIFLUORI	7732-18-5 X 9005-00-6 7664-38-2 Metal Cor 7783-00-6 Acute Tox DE 1341-49-7 Acute Tox Ingestion:	Do not ivictim's transpor	0000 2 corrosion1B; H 5000 2 corrosion1B; H 5000 2 torrosion1B; Se 4. F induce vol head low rt if any syle and disc	231-791-2 500-017-8 231-633-2 4290, H314 221-838-5 4290, H314 231-974-7 al 3; STOT RE 2; 215-676-4 erious Eye Damag IRST AIL miting. Call ered (forward mptoms note	1-5	NE NA (1) (1) (0.2) ic Toxicit (2.5) i314 SUF 281-17 p vom worn	NA (3) NA NA NA Y1; Chr NA RES 742 for it from and flu	NF NF NF NF NF NF NF (0.2) onic Aqu (2.5)	NF NF NF NF atic Toxic NA rgencyring theres with	NF NF NF NF NF city 1); H NA media	NA NA (1) (0.2) (301, H3 (2.5) cal ad s. Cal	NE NA	NE NA 1000 NA NA NA NA	ing occurs, keepergency medica
WATEI POLYC DERIV PHOSE COPPE SELEN AMMO	R DXYETHYLENE STEARYL WA 'ATIVES PHORIC ACID ER (II) NITRATE, TRIHYDRAT IIIOUS ACID INIUM HYDROGEN DIFLUORI	7732-18-5 X 9005-00-6 7664-38-2 Metal Cor 7783-00-6 Acute Tox DE 1341-49-7 Acute Tox Ingestion:	Do not ivictim's transpor Remove minutes. Remove	0000 2 Corrosion1B; H 5000 2 Corrosion1B; H 5000 2 Trosion 1B; Se 4. F Induce vol head low rt if any syle and disc Seek imr e contamir	231-791-2 500-017-8 231-633-2 4290, H314 221-838-5 4290, H314 231-974-7 ai 3; STOT RE 2; 215-676-4 erious Eye Damag IRST AIL miting. Call ered (forward mptoms note card contact mediate mediate mediated clothin	1-5 1-5	NE NA (1) (1) (0.2) ic Toxicif (2.5) d314 SUF 281-17 p vom worn ion wh	NA (3) NA NA ty 1; Chr NA 742 for it from and fluen dor exposed	NF NF NF (0.2) onic Aqu (2.5) r emen enter ush eyne rins d skin	NF NF NF atic Toxi NA gency ring the res with 1	NF NF NF NF City 1); H NA mediate lungers. arge a	NA NA (1) (0.2) (301, H3 (2.5) cal add s. Cal e amo	NA N	NA 1000 NA	ing occurs, keepergency medicater for at least 20
WATEI POLYC DERIV PHOSE COPPE SELEN AMMO	R DXYETHYLENE STEARYL WA 'ATIVES PHORIC ACID ER (II) NITRATE, TRIHYDRAT IIIOUS ACID INIUM HYDROGEN DIFLUORI	7732-18-5 X 9005-00-5 7664-38-2 Metal Cor 7783-00-6 Acute Tox DE 1341-49-7 Acute Tox Ingestion: Eyes: Skin:	Do not ivictim's transpor Remove medical	0000 2 Corrosion1B; H 5000 2 Corrosion1B; H 5000 2 Trosion 1B; Se 4. F Induce vol head low rt if any syle and disc s. Seek imr e contamir attention i	231-791-2 500-017-8 231-633-2 4290, H314 221-838-5 4290, H314 231-974-7 ai 3; STOT RE 2; 215-676-4 erious Eye Damag IRST AIL miting. Call ered (forward mptoms note card contact mediate medi mated clothin if any blisterir	1-5 1-5	NE NA (1) (1) (0.2) ic Toxicit (2.5) d314 SUF 281-17 p vom worn ion wh ash exing or o	NA (3) NA NA ty 1; Chr NA 742 for it from and fluen dor exposed pen so	NF NF NF NF (0.2) onic Aqu (2.5) r emen n enter ush eyne rins d skin ores de	NF NF NF atic Toxi NA gency ing the ses with levelop.	NF NF NF NF NF city 1); H NA media	NA NA (1) (0.2) (301, H3 (2.5) cal adds. Cal e amount	NA NA NA NA 31 NA vice. I' 1 911 ounts outs of	NA 1000 NA N	ing occurs, keepergency medicater for at least 20 and water. Seek
WATEI POLYC DERIV PHOSE COPPE SELEN AMMO	R DXYETHYLENE STEARYL WA 'ATIVES PHORIC ACID ER (II) NITRATE, TRIHYDRAT IIIOUS ACID INIUM HYDROGEN DIFLUORI	7732-18-5 X 9005-00-5 7664-38-2 Metal Cor 7031-43- Metal Cor 7783-00-6 Acute Tox DE 1341-49-7 Acute Tox Ingestion: Eyes:	Do not ivictim's transpor Remove medical	0000 2 Corrosion1B; H 5000 2 Corrosion1B; H 5000 2 Corrosion1B; Se Corrosion1B; H Corrosion	231-791-2 500-017-8 231-633-2 1290, H314 221-838-5 1290, H314 231-974-7 ai 3; STOT RE 2; 215-676-4 erious Eye Damag IRST AII miting. Call ered (forward mptoms note card contact mediate medi nated clothin if any blisterir sh air. Conta	1-5 1-5	NE NA (1) (1) (0.2) ic Toxicit (2.5) d314 SUF 281-17 p vom worn ion wh ash exing or o	NA (3) NA NA ty 1; Chr NA 742 for it from and fluen dor exposed pen so	NF NF NF NF (0.2) onic Aqu (2.5) r emen n enter ush eyne rins d skin ores de	NF NF NF atic Toxi NA gency ing the ses with levelop.	NF NF NF NF NF city 1); H NA media	NA NA (1) (0.2) (301, H3 (2.5) cal adds. Cal e amount	NA NA NA NA 31 NA vice. I' 1 911 ounts outs of	NA 1000 NA N	ing occurs, keepergency medicater for at least 20 and water. Seek
WATER POLYCO DERIV PHOSE COPPE SELEN AMMO	R DXYETHYLENE STEARYL WA ATIVES PHORIC ACID ER (II) NITRATE, TRIHYDRAT IIOUS ACID INIUM HYDROGEN DIFLUORI First Aid:	7732-18-5 X	Do not ivictim's transpor Remove medical MA ZOUTHO NA ZOUTHO NA	0000 2 Corrosion1B; H 5000 2 Corrosion1B; H 5000 2 Corrosion1B; Se Corrosion1B; H Corrosion	231-791-2 500-017-8 231-633-2 4290, H314 221-838-5 4290, H314 231-974-7 ai 3; STOT RE 2; 215-676-4 erious Eye Damag IRST AII miting. Call meted (forward mptoms note card contact mediate medi mated clothin if any blisterir sh air. Conta ciousness.	1-5 1-5	NE NA (1) (1) (0.2) ic Toxicit (2.5) d314 SUF 281-17 p vom worn ion wh ash exing or o	NA (3) NA NA ty 1; Chr NA 742 for it from and fluen dor exposed pen so	NF NF NF NF (0.2) onic Aqu (2.5) r emen n enter ush eyne rins d skin ores de	NF NF NF atic Toxi NA gency ing the ses with levelop.	NF NF NF NF NF city 1); H NA media	NA NA (1) (0.2) (301, H3 (2.5) cal adds. Cal e amount	NA NA NA NA 31 NA vice. I' 1 911 ounts outs of	NA 1000 NA N	ing occurs, keepergency medicater for at least 20 and water. Seek
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.2 SDS Revision Date: 02/21/2017 4. FIRST AID MEASURES - cont'd May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory 44 Acute Health Effects: tract. May be harmful if swallowed. Causes burns. May be harmful if absorbed through skin. 4.5 Chronic Health Effects: May damage the nervous system, kidney and/or liver. 4.6 Target Organs: Eyes, skin, nervous system, kidneys, liver, respiratory system, spleen, blood forming organs, bones Medical Conditions 4.7 Pre-existing dermatitis, other skin conditions, and disorders of the **HEALTH** 3 Aggravated by Exposure: target organs (eyes, skin, respiratory system, liver, blood-forming **FLAMMABILITY** 0 organs) or impaired kidney function may be more susceptible to the **PHYSICAL HAZARDS** 0 effects of this substance. PROTECTIVE EQUIPMENT Н SKIN **EYES** LUNGS Notes to Physician: 4.8 This product contains Selenious Acid and is potentially fatal if ingested even in small amounts. 24-hour admission should be considered in asymptomatic or minimally symptomatic patients as delayed toxic effects including pulmonary edema and multi-organ failure may occur. 24/7 medical toxicology consultation is available at +1 (855) 281-1742. 5. FIREFIGHTING MEASURES 5.1 Fire & Explosion Hazards: Non-flammable. May react with metals to release hydrogen gas, which can form explosive mixtures with air. May intensity fire; oxidizer. 52 Extinguishing Methods: Use fire-extinguishing media appropriate for surrounding materials. 5.3 Firefighting Procedures: As with any fire, firefighters should wear appropriate protective equipment including a MSHA/NIOSH 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 and/or derivatives. Fire should be fought from a safe distance. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURES Spills Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment (PPE). Use safety glasses or safety goggles and face shield; use gloves and other protective clothing (e.g., apron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible, inert material such as vermiculite or sand to soak up the product and place into a container for later disposal. Large Spills: Keep incompatible materials (e.g., organics such as oil) away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. Recover as much free liquid as possible and collect in acid-resistant container. Use absorbent to pick up residue. Avoid discharging liquid directly into a sewer or surface waters. 7. HANDLING & STORAGE INFORMATION 7 1 Work & Hygiene Practices: Avoid breathing mists or spray. Avoid eye and skin contact. Wear protective equipment when handling product. Keep out of the reach of children. Do not eat, drink or smoke when handling this product. Wash thoroughly after handling. Do not expose to heat and flame. Use only in ventilated areas. Keep out of the reach of children. Immediately clean-up and decontaminate any spills or residues. 72 Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Store in acid-resistant containers. Keep containers covered when not in use. Avoid temperatures above 40°C (120°F). Keep away from incompatible substances (see Section 10). Protect containers from physical damage. 7.3 Special Precautions: Empty containers may retain hazardous product residues.



Irritancy of Product:

Biological Exposure Indices:

Physician Recommendations:

See Section 2.3

Treat symptomatically.

NE

11.7

11.8

11.9

SAFETY DATA SHEET

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BTI-028 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 02/21/2017 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: No data available. 122 Effects on Plants & Animals: No data available 12.3 Effects on Aquatic Life: Very toxic to aquatic life with long lasting effects. Phosphoric Acid: EC₅₀ (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 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 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 UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L) 14 1 49 CFR (GND): 14.2 IATA (AIR): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 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) UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, 14 4 TDGR (Canadian GND): PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L) UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL \leq 5.0 L) ADR/RID (EU): 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 This product contains Selenious Acid, Cupric Sulfate and Phosphoric Acid, substances subject to SARA Title III, section 313 reporting requirements. SARA Threshold Planning 15.2 Quantity: 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); Ammonium Hydrogen Difluoride: 100 lbs (45.4 kg); Phosphoric Acid: 5,000 lbs (2,270 (RQ): kg) Other Federal Requirements: 15.5 NA Other Canadian Regulations: 15.6 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 Serious Toxic Effects) 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). Ammonium Hydrogen Difluoride is found on the following state criteria lists: FL, MA, MN, NJ, PA and Washington Permissible Exposures List (WA). Phosphoric Acid is found on the following state criteria lists: MA, 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: The primary components of this product are listed in Annex I of EU Directive 67/548/EEC. Selenious Acid: Corrosive (C), Toxic (T). Risk Phrases (R): R35 - Causes severe burns. Safety Phrases (S): S1/2-7/9-24/25-26-28-46 - Keep locked up and out of the reach of children. Keep container tightly closed and in a well-ventilated place. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After

contact with skin, wash with plenty of soap and warm water. If swallowed, seek medical advice

immediately and show this container or label.



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SDS Revision: 1.2 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 02/21/2017 16. OTHER INFORMATION Other Information: DANGER! POISON. CORROSIVE. May be fatal if swallowed or harmful if inhaled. Causes severe burns to eyes and skin. Avoid excessive heat. Terms & Definitions: 16.2 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. 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 16.5 Prepared by: ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA

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SDS Revision Date: 02/21/2017

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

EXPOSURE LIMITS IN AIR:

ACGIH	ACGIH American Conference on Governmental Industrial Hygienists				
TLV	Threshold Limit Value				
OSHA	OSHA U.S. Occupational Safety and Health Administration				
PEL	PEL Permissible Exposure Limit				
IDLH	Immediately Dangerous to Life and Health				

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

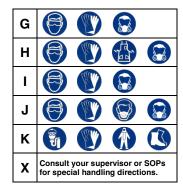
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

HEALTH FLAMMABILITY PHYSICAL HAZARDS PERSONAL PROTECTION

PERSONAL PROTECTION RATINGS:

A				
В				
С				
D	(Fr	Mary Control		
E				
F			TH.	





Splash Goggles









Protective Clothing & Full Suit

Dust Respirator







OTHER STANDARD ABBREVIATIONS:

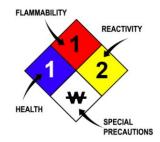
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus
Flam.	Flammable
Liq.	Liquid
Sol.	Solid
Tox.	Toxicity
Irrit.	Irritation
Sens.	Senitization
Ox.	Oxidizing
Corr.	Corrosion
Repr.	Reproductive (Harm)
Asp.	Aspiration
lnh.	Inhalation
Dam.	Damage
STOT SE	Specific Target Organ Toxicity – Single Exposure
STOT RE	Specific Target Organ Toxicity – Repeated Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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

HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
₩	Use No Water
OX	Oxidizer
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
	S
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, 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
TL _m	Median threshold limit
log K _{ow} or log K _{oc}	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System				
DOT	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:

0	(3)	(\odot	(1)		R
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

		No.	*		®	×	×
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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	Environ- ment