BIRCHWOOD TECHNOLOGIES

SAFETY DATA SHEET

Page 1 of 6 BTI-028

Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards

SDS Revision: 3.1

		1	PRODUC			יטו א								
1.1	Product Name:					יטו ו								
		ANTIQU	E BROWN	[®] GEL										
1.2	Chemical Name:	Acid Mixture												
1.3	Synonyms:	750050, 7500	,											
1.4	Trade Names:	Antique Brow												
1.5	Product Use:		l to achieve a go	olden to choco	late brow	n color	on bra	ass, br	onze,	copper	•			
1.6	Distributor's Name:	Birchwood La	boratories LLC											
1.7	Distributor's Address:	7900 Fuller R	oad, Eden Prair	rie, MN 55344	USA									
1.8	Emergency Phone:	ChemTrec ·	+1 (800) 424-9	9300 / +1 (70)3) 527-3	3887 o	r Pois	son C	ontro	ol Cen	ter +1	l (855) 281-1	742
1.9	Business Phone / Fax:	+1 (952) 937	-7900 / +1 (952) 937-7979										
			2 H	AZARDS		TIFIC	CAT							
2.1	Hazard Identification:	Droporod in (tondoo	to oo	moly	with O		CFR 1910.1200.
		Canadian WH DANGER! TO TO ORGANS	HMIS and Austra	alian Work Hea LOWED. MAY ROLONGED O	alth and S Y CAUSE OR REPE	Safety. SEVEI ATED E	RE SK EXPOS	(IN BU SURE.	IRNS					CAUSE DAMAGE
		H373 - May c <u>Precautionary</u> not breathe di drink or smok gloves/ protec Mouth. Do N comfortable f minutes. Rem medical help label. P363 -	ments (H): H30 ause damage to <u>v Statements</u> (P ust or mist. P26- e when using thi ctive clothing/ ey OT induce vom or breathing. P nove contact ler immediately. P Wash contami ainer to licenses	o organs throu): P220 - Keep 4 – Wash thorr is product. P27 ye protection/ f niting. P304+P 2305+P351+P3 nses, if preser 321 – Specific inated clothing	gh prolon o/Store av oughly wi 73 – Avoid face prote 2340 – IF 338 - IF nt and ea c treatmen g before i	iged or vay fron th soap d releas ection. F INHAL IN EYE sy to do nt see s reuse. F	repeat and wate to th P301+ ED: F ES: Rin o. Cor Sectior P405 -	ted exp ing/ co vater a e envi P330+ Remov nse ca ntinue n 4 (fir – Store	oosure ombus fter ha ronme P331 e pers autious rinsing st aid) e locke	e. tible m ndling. nt. P28 - IF SV son to sly with g. P316) of this	aterial P270 30 - We VALLC fresh n wate 6 – Ge s SDS	s. P26 – Do n ear pro OWED: air and r for s et eme or coi	0 – Do not eat, tective Rinse d keep several rgency ntainer	
23	Other Warnings:				<u> </u>									
2.3	Other Warnings:	who may see KEEP OUT C	k advice from th F REACH OF (ne U.S. manufa CHILDREN.	acturer, a	nd show	v them	n this S	SDS.			an or le	ocal poi	son control center,
2.3	Other Warnings:	who may see KEEP OUT C	k advice from th	ne U.S. manufa CHILDREN.	acturer, a	nd show	v them	n this S	SDS. RMA	TIOI	N			son control center,
2.3	Other Warnings:	who may see KEEP OUT C	k advice from th F REACH OF (ne U.S. manufa CHILDREN.	acturer, a	nd show	w them	n this S	SDS. RMA		N		mg/m ³)	son control center,
2.3	Other Warnings:	who may see KEEP OUT C	k advice from th F REACH OF (ne U.S. manufa CHILDREN.	acturer, a	DIEN	w them T IN GIH	n this S	SDS. RMA EXP		N	IN AIR (r	mg/m³)	son control center,
		who may see KEEP OUT C	k advice from th DF REACH OF C COMPOSIT	e U.S. manufa CHILDREN. ΓΙΟΝ & ΙΝ	IGREI	DIEN	w them TIN GIH om	FOF	SDS. RMA EXP NOHSC ppm ES-	TIOI		IN AIR (r OSHA ppm	mg/m³)	-
	Other Warnings:	who may see KEEP OUT C 3. C	k advice from th F REACH OF (COMPOSI] RTECS No.	e U.S. manufa CHILDREN. FION & IN EINECS No.	IGREI	DIEN	W them TIN GIH STEL	FOF	ES- STEL	TIOI		IN AIR (r OSHA ppm STEL	mg/m ³) A IDLH	Son control center,
СНЕМІ	CAL NAME(S)	who may see KEEP OUT C	k advice from th DF REACH OF C COMPOSIT	e U.S. manufa CHILDREN. ΓΙΟΝ & ΙΝ	IGREI	DIEN	w them TIN GIH om	FOF	SDS. RMA EXP NOHSC ppm ES-	TIOI		IN AIR (r OSHA ppm	mg/m³)	-
CHEMI WATE	ICAL NAME(S)	who may see KEEP OUT C 3. C CAS No. 7732-18-5	k advice from th F REACH OF (COMPOSI] RTECS No.	e U.S. manufa CHILDREN. FION & IN EINECS No.	IGREI	DIEN	W them TIN GIH STEL	FOF	ES- STEL	TIOI		IN AIR (r OSHA ppm STEL	mg/m ³) A IDLH	-
CHEMI WATE POLY	CAL NAME(S)	who may see KEEP OUT C 3. C CAS No. 7732-18-5	k advice from th PF REACH OF (COMPOSI] RTECS №. ZC0110000	e U.S. manufa CHILDREN. TION & IN EINECS No. 231-791-2	IGREI % 60-100	DIEN ACC PP TLV NE	W them TIN GIH STEL NE	FOF ES- TWA NF	SDS. RMA EXP NOHSC ppm ES- STEL NF	ES- PEAK	N LIMITS PEL NE	IN AIR (r OSHA ppm STEL NE	mg/m³) A IDLH NE	-
CHEMI WATE POLY WAX	ICAL NAME(S) ER OXYETHYLENE STEARYL DERIVATIVES PER (II) NITRATE,	who may see KEEP OUT C 3. C CAS No. 7732-18-5 9005-00-9 Aquatic Chror 10031-43-3	k advice from th F REACH OF (COMPOSIT RTECS No. ZC0110000 NA nic. 2; H411 GI7875000	e U.S. manufa CHILDREN. FION & IN EINECS No. 231-791-2 500-017-8 221-838-5	IGREI % 60-100 7-13	DIEN ACC PP TLV NE NA (1)	W them	FOF ES- TWA NF NF	SDS. RMA EXP NOHSC ppm ES- STEL NF NF	TIOI OSURE ES- PEAK NF NF	N LIMITS PEL NE NA	IN AIR (r OSHA ppm STEL NE NA	mg/m³) A IDLH NE	-
CHEMI WATE POLY WAX	CAL NAME(S) R OXYETHYLENE STEARYL DERIVATIVES	who may see KEEP OUT C 3. C CAS No. 7732-18-5 9005-00-9 Aquatic Chror 10031-43-3 Ox. Sol. 2; Ac	k advice from th F REACH OF (COMPOSIT RTECS No. ZC0110000 NA nic. 2; H411 GI7875000 ute Tox. (oral) 4; 5	e U.S. manufa CHILDREN. FION & IN EINECS No. 231-791-2 500-017-8 221-838-5 Skin Irrit. 2; Eye	IGREI % 60-100 7-13 1-5 Irrit. 2; Aqu	DIEN ACC PP TLV NE NA	W them	FOF ES- TWA NF NF 272, H3	SDS. RMA EXP NOHSC ppm ES- STEL NF NF NF 302, H3	ES- PEAK NF NF	N LIMITS PEL NE NA (1) 19, H40	IN AIR (r OSHA ppm STEL NE NA	mg/m³)	-
CHEMI WATE POLY WAX COPP TRIHY	CAL NAME(S) R OXYETHYLENE STEARYL DERIVATIVES PER (II) NITRATE, /DRATE	who may see KEEP OUT C 3. C CAS No. 7732-18-5 9005-00-9 Aquatic Chror 10031-43-3 Ox. Sol. 2; Ac 7783-00-8	k advice from th F REACH OF (COMPOSIT COMPOSIT RTECS No. ZC0110000 NA ic. 2; H411 GI7875000 ute Tox. (oral) 4; § VS7175000	e U.S. manufa CHILDREN. FION & IN EINECS No. 231-791-2 500-017-8 221-838-5 Skin Irrit. 2; Eye 231-974-7	IGREI % 60-100 7-13 1-5 Irrit. 2; Aqu 1-5	DIEN ACC PP TLV NE NA (1) uatic Acu	W them TIN GIH STEL NE NA tte 1; H NA	FOF ES- TWA NF NF 272, H3 (0.2)	RMA EXP NOHSC PPM ES- STEL NF NF NF 302, H3	TIOI OSURE ES- PEAK NF NF NF 15, H3	N PEL NE NA (1) 19, H40 (0.2)	IN AIR (r OSHA ppm STEL NE NA NA	mg/m³) IDLH NE NA NA	OTHER
CHEMI WATE POLY WAX COPP TRIHY	ICAL NAME(S) ER OXYETHYLENE STEARYL DERIVATIVES PER (II) NITRATE,	who may see KEEP OUT C 3. C CAS No. 7732-18-5 9005-00-9 Aquatic Chror 10031-43-3 Ox. Sol. 2; Ac 7783-00-8 Acute Tox. (or	k advice from th F REACH OF (COMPOSIT COMPOSIT RTECS No. ZCO110000 NA ic. 2; H411 GI7875000 ute Tox. (oral) 4; § VS7175000 ral) 3; Acute Tox. (e U.S. manufa CHILDREN. FION & IN EINECS No. 231-791-2 500-017-8 221-838-5 Skin Irrit. 2; Eye 231-974-7 (inh) 3; STOT RI	% 60-100 7-13 1-5 Irrit. 2; Aqu 1-5 E 2; Acute	DIEN ACC PP TLV NE NA (1) uatic Acu (0.2) Aquatic	T IN GIH STEL NE NA Ite 1; H NA 1; Chrc	FOF ES- TWA NF NF 272, H3 (0.2) pnic Aqu	RMA EXP NOHSC ppm ES- STEL NF NF 302, H3 NF Jatic 1;	TIOI OSURE ES- PEAK NF NF 15, H3 NF H301, I	N PEL NE (1) 19, H40 (0.2) H331, F	IN AIR (r OSHA ppm STEL NE NA 0 NA 1373, H	mg/m³) IDLH NE NA NA 400, H4	OTHER
CHEMI WATE POLY WAX COPP TRIHY SELEI	CAL NAME(S) R OXYETHYLENE STEARYL DERIVATIVES PER (II) NITRATE, /DRATE	who may see KEEP OUT C 3. C CAS No. 7732-18-5 9005-00-9 Aquatic Chror 10031-43-3 Ox. Sol. 2; Ac 7783-00-8 Acute Tox. (or 7697-37-2	k advice from th F REACH OF (COMPOSIT RTECS No. ZC0110000 NA nic. 2; H411 GI7875000 ute Tox. (oral) 4; S VS7175000 ral) 3; Acute Tox. (QU5775000	e U.S. manufa CHILDREN. FION & IN EINECS No. 231-791-2 500-017-8 221-838-5 5kin Irrit. 2; Eye 231-974-7 (inh) 3; STOT RI 231-714-2	IGREI % 60-100 7-13 1-5 Irrit. 2; Aqu 1-5	DIEN ACC PP TLV NE NA (1) uatic Acu	T IN GIH STEL NE NA tte 1; H NA	FOF ES- TWA NF NF 272, H3 (0.2)	RMA EXP NOHSC PPM ES- STEL NF NF NF 302, H3	TIOI OSURE ES- PEAK NF NF NF 15, H3	N PEL NE NA (1) 19, H40 (0.2)	IN AIR (r OSHA ppm STEL NE NA NA	mg/m³) IDLH NE NA NA	OTHER
CHEMI WATE POLY WAX COPP TRIHY SELEI	CAL NAME(S) R OXYETHYLENE STEARYL DERIVATIVES PER (II) NITRATE, /DRATE NIOUS ACID	who may see KEEP OUT C 3. C CAS No. 7732-18-5 9005-00-9 Aquatic Chror 10031-43-3 Ox. Sol. 2; Ac 7783-00-8 Acute Tox. (or 7697-37-2 Ox. Liq. 3; Ski	k advice from th F REACH OF (COMPOSIT RTECS No. ZC0110000 NA NA Nic. 2; H411 GI7875000 ute Tox. (oral) 4; S VS7175000 ral) 3; Acute Tox. (QU5775000 in Corr. 1A; H272,	e U.S. manufa CHILDREN. FION & IN EINECS No. 231-791-2 500-017-8 221-838-5 Skin Irrit. 2; Eye 231-974-7 (inh) 3; STOT RI 231-714-2 H314	% 60-100 7-13 1-5 Irrit. 2; Aqu 1-5 2; Acute 1-5	DIEN ACC PP TLV NE NA (1) Jatic Acu (0.2) Aquatic 2	T IN GIH STEL NA NA Ite 1; H NA 1; Chrc 4	FOF ES- TWA NF NF 272, H3 (0.2) pnic Aqu 2	EXP NOHSC ppm ES- STEL NF NF 302, H3 NF 302, H3 NF 302, H3	TIOI OSURE ES- PEAK NF NF 115, H3 NF H301, I NF	N LIMITS PEL NE NA (1) 19, H40 (0.2) H331, H 2	IN AIR (r OSHA ppm STEL NE NA 0 NA 1373, H	mg/m³) IDLH NE NA NA 400, H4 ² 25	OTHER
CHEMIN WATE POLY WAX I COPP TRIHY SELEI NITRI	CAL NAME(S) R OXYETHYLENE STEARYL DERIVATIVES PER (II) NITRATE, /DRATE NIOUS ACID	who may see KEEP OUT C 3. C CAS No. 7732-18-5 9005-00-9 Aquatic Chror 10031-43-3 Ox. Sol. 2; Ac 7783-00-8 Acute Tox. (or 7697-37-2	k advice from th F REACH OF (COMPOSIT RTECS No. ZC0110000 NA NA Nic. 2; H411 GI7875000 ute Tox. (oral) 4; S VS7175000 ral) 3; Acute Tox. (QU5775000 in Corr. 1A; H272, TB6300000	e U.S. manufa CHILDREN. FION & IN EINECS No. 231-791-2 500-017-8 221-838-5 5kin Irrit. 2; Eye 231-974-7 (inh) 3; STOT RI 231-714-2	% 60-100 7-13 1-5 Irrit. 2; Aqu 1-5 E 2; Acute	DIEN ACC PP TLV NE NA (1) uatic Acu (0.2) Aquatic	T IN GIH STEL NE NA Ite 1; H NA 1; Chrc	FOF ES- TWA NF NF 272, H3 (0.2) pnic Aqu	RMA EXP NOHSC ppm ES- STEL NF NF 302, H3 NF Jatic 1;	TIOI OSURE ES- PEAK NF NF 15, H3 NF H301, I	N PEL NE (1) 19, H40 (0.2) H331, F	IN AIR (r OSHA ppm STEL NE NA 0 NA 1373, H	mg/m³) IDLH NE NA NA 400, H4	OTHER
CHEMIN WATE POLY WAX I COPP TRIHY SELEI NITRI	CAL NAME(S) R OXYETHYLENE STEARYL DERIVATIVES YER (II) NITRATE, /DRATE NIOUS ACID C ACID	who may see KEEP OUT C 3. C CAS No. 7732-18-5 9005-00-9 Aquatic Chror 10031-43-3 Ox. Sol. 2; Ac 7783-00-8 Acute Tox. (or 7697-37-2 Ox. Liq. 3; Ski 7664-38-2	k advice from th F REACH OF (COMPOSIT RTECS No. ZC0110000 NA NA Nic. 2; H411 GI7875000 ute Tox. (oral) 4; S VS7175000 ral) 3; Acute Tox. (QU5775000 in Corr. 1A; H272, TB6300000 H314	e U.S. manufa CHILDREN. FION & IN EINECS No. 231-791-2 500-017-8 221-838-5 5kin Irrit. 2; Eye 231-974-7 (inh) 3; STOT RI 231-714-2 H314 231-633-2	% 60-100 7-13 1-5 Irrit. 2; Aqu 1-5 2; Acute 1-5 1-5 1-5 1-5 1-5 1-5	DIEN ACC PP TLV NE (1) Jatic Acu (0.2) Aquatic 2 (1)	v them T IN GIH om STEL NA NA Ite 1; H NA 1; Chrc 4 (3)	FOF ES- TWA NF NF 272, H3 (0.2) onic Aqu 2 (1)	EXP NOHSC ppm ES- STEL NF NF 302, H3 NF 302, H3 NF 302, H3	TIOI OSURE ES- PEAK NF NF 115, H3 NF H301, I NF	N LIMITS PEL NE NA (1) 19, H40 (0.2) H331, H 2	IN AIR (r OSHA ppm STEL NE NA 0 NA 1373, H	mg/m³) IDLH NE NA NA 400, H4 ² 25	OTHER
CHEMIN WATE POLY WAX I COPP TRIHY SELEI NITRI	CAL NAME(S) R OXYETHYLENE STEARYL DERIVATIVES YER (II) NITRATE, /DRATE NIOUS ACID C ACID	who may see KEEP OUT C 3. C CAS No. 7732-18-5 9005-00-9 Aquatic Chror 10031-43-3 Ox. Sol. 2; Ac 7783-00-8 Acute Tox. (or 7697-37-2 Ox. Liq. 3; Ski 7664-38-2	k advice from the FREACH OF COMPOSIT	EINECS No. 231-791-2 500-017-8 221-838-5 5kin Irrit. 2; Eye 231-974-7 (inh) 3; STOT RI 231-714-2 H314 231-633-2 FIRST A	% 60-100 7-13 1-5 Irrit. 2; Aqu 1-5 2; Acute 1-5 1-5	DIEN ACC PP TLV NE NA (1) Juatic Acu (0.2) Aquatic 2 (1) EASL	v them T IN GIH STEL NA NA NA NA 1; Chrc 4 (3)	FOF ES- TWA NF NF 272, H3 (0.2) onic Aqu 2 (1)	SDS. EXP NOHSC ppm ES- STEL NF NF NF 302, H3 NF Jatic 1; NF (3)	TIOI OSURE PEAK NF NF NF 15, H3 NF H301, I NF H301, I NF	PEL NA (1) 19, H40 (0.2) H331, F 2 NA	IN AIR (r OSHA ppm STEL NE NA NA 1373, H NA	mg/m³) IDLH NE NA NA 400, H41 25 1000	OTHER
CHEMIN WATE POLY WAX I COPP TRIHY SELEI NITRI	CAL NAME(S) R OXYETHYLENE STEARYL DERIVATIVES YER (II) NITRATE, /DRATE NIOUS ACID C ACID	who may see KEEP OUT C 3. C CAS No. 7732-18-5 9005-00-9 Aquatic Chror 10031-43-3 Ox. Sol. 2; Ac 7783-00-8 Acute Tox. (or 7697-37-2 Ox. Liq. 3; Ski 7664-38-2 Skin Corr.1B; Ingestion:	k advice from the FREACH OF COMPOSIT	EINECS No. 231-791-2 500-017-8 221-838-5 Skin Irrit. 2; Eye 231-974-7 (inh) 3; STOT RI 231-714-2 H314 231-633-2 FIRST A e vomiting. Ca lowered (forw y symptoms no	% 60-100 7-13 1-5 Irrit. 2; Aqu 1-5 2; Acute 1-5 11-5 2; Acute 1-5	DIEN ACC PP TLV NE NA (1) Jatic Acu (0.2) Aquatic 2 (1) EASL 5) 281- acep vo	TIN GIH M STEL NA NA NA Ite 1; H NA 1; Chrc 4 (3) JRE (3)	FOF ES- TWA NF NF 272, H3 (0.2) onic Aqu (1) S for emomen	SDS. EXP NOHSC ppm ES- STEL NF NF 302, H3 NF Jatic 1; NF Jatic 1; NF Jatic 1; NF Jatic 1; NF	TIOI	PEL NE NA (1) 19, H40 (0.2) H331, F 2 NA dical angs. C	IN AIR (r OSHA ppm STEL NA NA 0 NA 1373, H NA 1373, H NA advice. call 91	mg/m³) IDLH NE NA NA 400, H4 ¹ 25 1000	OTHER
CHEMM WATE POLY WAX I COPP TRIHY SELEI NITRI PHOS	ICAL NAME(S) ER OXYETHYLENE STEARYL DERIVATIVES FER (II) NITRATE, (DRATE NIOUS ACID C ACID SPHORIC ACID	who may see KEEP OUT C 3. C CAS No. 7732-18-5 9005-00-9 Aquatic Chror 10031-43-3 Ox. Sol. 2; Ac 7783-00-8 Acute Tox. (or 7697-37-2 Ox. Liq. 3; Ski 7664-38-2 Skin Corr.1B;	k advice from the FREACH OF COMPOSIT	EINECS No. EINECS No. 231-791-2 500-017-8 221-838-5 Skin Irrit. 2; Eye 231-974-7 (inh) 3; STOT RI 231-714-2 H314 231-633-2 FIRST A a vomiting. Ca lowered (forw y symptoms no discard contact	% 60-100 7-13 1-5 Irrit. 2; Aqu 1-5 2; Acute 1-5 1-5 1-5 all +1 (85 vard) to k oted. t lenses if	DIEN ACC PP TLV NE NA (1) Jatic Acu (0.2) Aquatic 2 (1) CASL (0.2) Aquatic 2 (1) S) 281- Ceep vo worn al	T IN GIH STEL NA NA NA I; Chrc 4 (3) JRE 1742 mit from	FOF ES- TWA NF NF 272, H3 (0.2) onic Aqu 2 (1) S for emom en h eyes	SDS. EXP NOHSC ppm ES- STEL NF NF 302, H3 NF 302, H3 NF 303 NF NF NF NF NF NF NF NF NF NF	TIOI	PEL NE NA (1) 19, H40 (0.2) H331, F 2 NA dical angs. C	IN AIR (r OSHA ppm STEL NA NA 0 NA 1373, H NA 1373, H NA advice. call 91	mg/m³) IDLH NE NA NA 400, H4 ¹ 25 1000	OTHER
CHEMM WATE POLY WAX I COPP TRIHY SELEI NITRI PHOS	ICAL NAME(S) ER OXYETHYLENE STEARYL DERIVATIVES FER (II) NITRATE, (DRATE NIOUS ACID C ACID SPHORIC ACID	who may see KEEP OUT C 3. C CAS No. 7732-18-5 9005-00-9 Aquatic Chror 10031-43-3 Ox. Sol. 2; Ac 7783-00-8 Acute Tox. (or 7697-37-2 Ox. Liq. 3; Ski 7664-38-2 Skin Corr.1B; Ingestion:	k advice from the FREACH OF COMPOSIT	EINECS No. 231-791-2 500-017-8 221-838-5 Skin Irrit. 2; Eye 231-974-7 (inh) 3; STOT RI 231-714-2 H314 231-633-2 FIRST A e vomiting. Ca lowered (forw y symptoms no discard contact te medical atte aminated cloth	% 60-100 7-13 1-5 Irrit. 2; Aqu 1-5 2; Acute 1-5	DIEN ACC PP TLV NE NA (1) Jatic Acu (0.2) Aquatic 2 (1) EASL 5) 281- iceep vo worn ar en done /ash ext	v them T IN GIH om STEL NA NA I; Chrc 4 (3) JRE 1742 omit from omit from omit from	FOF ES- TWA NF NF 272, H3 (0.2) onic Aqu 2 (1) S for em om en h eyes skin w	SDS. EXP NOHSC ppm ES- STEL NF NF 302, H3 NF 302, H3 NF 103 NF	TIOI	N LIMITS PEL NE NA (1) 19, H40 (0.2) H331, H 2 NA dical a ngs. C mounts	IN AIR (r OSHA ppm STEL NE NA NA 0 NA 1373, H NA 1373, H NA 1373, H NA	mg/m³) IDLH NE NA NA NA 400, H4 ¹ 25 1000 If vom 1 for er ter for a	OTHER

BIRCHWOOD

SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards

SDS Revision: 3.1 SDS Revision Date: 3/10/2022

		4. FIRST AID MEASURES – cont'd		
4.2	Effects of Exposure:	Eyes: 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 membrane	es. Possible lung damage.	
4.3	Symptoms of Overexposure:	Eyes: 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 membra		
4.4	Acute Health Effects:	May be harmful if inhaled. Material is extremely destructive to the tissue of the m tract. May be harmful if swallowed. Causes burns. May be harmful if absorbed thr	nucous membranes and upper respi	ratory
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.		
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 may be more susceptible to the effects of this substance.	HEALTH FLAMMABILITY PHYSICAL HAZARDS	3 0 2
			PROTECTIVE EQUIPMENT	н
			EYES SKIN LUNGS	
4.8	Notes to Physician:	This product contains <u>Selenious Acid</u> and is potentially fatal if ingested even in s be considered in asymptomatic or minimally symptomatic patients as delayed tox multi-organ failure may occur. 24/7 medical toxicology consultation is available at	mall amounts. 24-hour admission s ic effects including pulmonary edem	
		5. FIREFIGHTING MEASURES		
5.1	Fire & Explosion Hazards:	Non-flammable. May react with metals to release hydrogen gas, which can form ex air. May intensity fire; oxidizer.	plosive mixtures with	
5.2	Extinguishing Methods: Firefighting Procedures:	Use fire-extinguishing media appropriate for surrounding materials. As with any fire, firefighters should wear appropriate protective equipment include approved or equivalent self-contained breathing apparatus (SCBA) and protective as for surrounding materials. Hazardous decomposition products may be degradation may produce oxides of carbon, phosphorous, selenium and/or nitti and/or derivatives. Fire should be fought from a safe distance. Keep containers con- fire is out. Use water spray to cool fire-exposed surfaces and to protect personal Prevent runoff from fire control or dilution from entering sewers, drains, drinking natural waterway.	e clothing. Fight fires released. Thermal rogen, hydrocarbons pol until well after the al. Fight fire upwind.	
		6. ACCIDENTAL RELEASE MEASURES		
6.1	Spills:	Before cleaning any spill or leak, individuals involved in spill cleanup must wear a (PPE). Use safety glasses or safety goggles and face shield; use gloves and oth etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves and protective	her protective clothing (e.g., apron, l	boots,
		material such as vermiculite or sand to soak up the product and place into a conta <u>Large Spills</u> : Keep incompatible materials (e.g., organics such as oil) away from release. Isolate immediate hazard area and keep unauthorized personnel out of a with minimal risk. Wear appropriate protective equipment including respiratory pro much free liquid as possible and collect in acid-resistant container. Use absorb liquid directly into a sewer or surface waters.	ainer for later disposal. spill. Stay upwind and away from s area. Stop spill or release if it can be otection as conditions warrant. Reco	pill or done ver as
		Large Spills: Keep incompatible materials (e.g., organics such as oil) away from release. Isolate immediate hazard area and keep unauthorized personnel out of a with minimal risk. Wear appropriate protective equipment including respiratory promuch free liquid as possible and collect in acid-resistant container. Use absorb	ainer for later disposal. spill. Stay upwind and away from s area. Stop spill or release if it can be otection as conditions warrant. Reco	pill or done ver as
7.1	Work & Hygiene Practices:	Large Spills: Keep incompatible materials (e.g., organics such as oil) away from release. Isolate immediate hazard area and keep unauthorized personnel out of a with minimal risk. Wear appropriate protective equipment including respiratory promuch free liquid as possible and collect in acid-resistant container. Use absorbiliquid directly into a sewer or surface waters. 7. HANDLING & STORAGE INFORMATION Avoid breathing mists or spray. Avoid eye and skin contact. Wear protective equipt the reach of children. Do not eat, drink or smoke when handling this product. Was to heat and flame. Use only in ventilated areas. Keep out of the reach of children. any spills or residues.	ainer for later disposal. spill. Stay upwind and away from s area. Stop spill or release if it can be otection as conditions warrant. Reco- ent to pick up residue. Avoid discha ment when handling product. Keep h thoroughly after handling. Do not ex Immediately clean-up and decontan	spill or done ver as arging out of xpose ninate
7.1	Work & Hygiene Practices: Storage & Handling:	Large Spills: Keep incompatible materials (e.g., organics such as oil) away from release. Isolate immediate hazard area and keep unauthorized personnel out of a with minimal risk. Wear appropriate protective equipment including respiratory promuch free liquid as possible and collect in acid-resistant container. Use absorb liquid directly into a sewer or surface waters. 7. HANDLING & STORAGE INFORMATION Avoid breathing mists or spray. Avoid eye and skin contact. Wear protective equipt the reach of children. Do not eat, drink or smoke when handling this product. Wash to heat and flame. Use only in ventilated areas. Keep out of the reach of children.	ainer for later disposal. spill. Stay upwind and away from s area. Stop spill or release if it can be otection as conditions warrant. Reco- ent to pick up residue. Avoid discha oment when handling product. Keep h thoroughly after handling. Do not e: Immediately clean-up and decontan , fans) away from heat and direct su Avoid temperatures above 40°C (12	epill or e done ver as arging out of xpose ninate



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0.1	For some the tr	8. EXPOSURE CONTROL							00111		07:
8.1	Exposure Limits: ppm (mg/m ³)		AC	GIH		NOHSC ES-	E6		OSHA		OTHER
	ppin (mg/m)	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	STEL	ES- PEAK	PEL	STEL	IDLH	
		COPPER (II) NITRATE, TRIHYDRATE	(1)	NA	NF	NF	NF	(1)	NA	NA	
		SELENIOUS ACID	(0.2)	NA	(0.2)	NF	NF	(0.2)	NA	NA	
		NITRIC ACID	2	4	2	NF	NF	2	NA	25	
		PHOSPHORIC ACID	(1)	(3)	(1)	(3)	NF	NA	NA	1000	
8.2	Ventilation & Engineering Controls:	Use local or general exhaust ventilation thandling of this product. Ensure appropristation).	to effectiv ate deco	vely remo ntaminat	ove and p ion equipn	revent bu nent is av	ildup of v ailable (e	apors or .g., sink,	mist ger safety sh	nerated nower, e	from th eye-was
8.3	Respiratory Protection:	In instances where vapors or sprays of th use only protection authorized by 29 CFF CAS Standard Z94.4-93 and applicable sta	s §1910.1	134, appl	icable U.S	. State re	gulations	, or the C	anadian	8	
8.4	Eye Protection:	Safety glasses with side shields must be u is also recommended.								0	ß
8.5	Hand Protection:	Wear protective, chemical-resistant gloves	s (e.g., n	eoprene)	when usir	ng or hand	dling this	product.			
8.6	Body Protection:	A chemical resistant apron and/or prote product.	ctive clo	thing are	recomme	ended wh	nen hand	ling or u	sing this		
		9. PHYSICAL & C	НЕМІ								
9.1	Appearance:	Blue gel					•				
9.2	Odor:	Odorless									
9.3	Odor Threshold:	NA									
9.4	pH:	1.5									
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 Limits:	NA									
9.9	Vapor Pressure:	NA									
9.10	Vapor Density:	< 1.0 (air = 1.0)									
9.11	Relative Density:	1.055									
9.12	Solubility:	Complete (water)									
9.13	Partition Coefficient (log	NA									
9.14	Pow): Autoignition Temperature:	NA									
9.15	Decomposition										
	Temperature:	NA									
9.16	Viscosity:	NA									
9.17	Other Information:	Evaporation Rate: < 1.0 (ethyl ether = 1.0))								
		10. STABILI	TY &	REAC	ΤΙΥΙΤΥ						
10.1	Stability:	Stable at normal temperatures.									
10.2	Hazardous Decomposition Products:	Reaction with organics and strong redu decomposition may produce selenium, nit									Therma
10.3	Hazardous Polymerization:	Will not occur.	<u> </u>								
10.4	Conditions to Avoid:	Excessive heat.									
10.5	Incompatible Substances:	Cyanides, water-reactive substances, st materials, and most metals.	rong red	ucing ag	ents, chlo	rinated c	leaners o	or sanitiz	ers, com	bustible	e organi
		11. TOXICOLO	GICAL	. INFC	RMAT	ION					
11.1	Routes of Entry:	Inhalation: YES		Absorp				Ing	estion:	10	
11.2	Toxicity Data:	Phosphoric Acid: LD ₅₀ (oral, rat) = 1530 r 1030 mg/kg	ng/kg; <u>C</u>	opper Ni			9 ₅₀ (oral, r	at) = 794		-	al, rat)
		See Section 4.4									
11.3	Acute I oxicity:										
11.3 11.4	Acute Toxicity: Chronic Toxicity:	See Section 4.5									
11.4	Chronic Toxicity:	See Section 4.5									
11.4 11.5	Chronic Toxicity: Suspected Carcinogen:	NA	oductive	toxicity in	humans						
11.4	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity:	NA This product is not reported to cause repr		1							
11.4 11.5	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity:	NA This product is not reported to cause repro This product is not reported to produce m	utagenic	effects in	humans.	<u></u>					
11.4 11.5	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity:	NA This product is not reported to cause repr	utagenic nbryotoxi	effects in c effects	humans. in humans	ð.					

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		11. TOXICOLOGICAL INFORMATION – cont'd
11.7	Irritancy of Product:	See Section 4.2
11.8	Biological Exposure Indic	
11.9	Physician Recommendations:	Treat symptomatically.
		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	No data available.
12.2 12.3	Effects on Plants & Animals: Effects on Aquatic Life:	No data available.
12.3	Ellecis on Aqualic Lile.	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 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
		Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional ay be 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, PHOSPHORIC
	· · /	ACID), 8, II, LTD QTY (IP VOL \leq 1.0 L)
14.2	IATA (AIR):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, LTD QTY (IP VOL ≤ 0.1 L)
14.3	IMDG (OCN):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, LTD QTY (IP VOL ≤ 1.0 L)
14.4	TDGR (Canadian GND):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, LTD QTY (IP VOL ≤ 1.0 L)
14.5	ADR/RID (EU):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, LTD QTY (IP VOL ≤ 1.0 L)
14.6	SCT (MEXICO):	UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO FOSFORICO), 8, II, CANTIDAD LIMITADA (IP VOL ≤ 1.0 L)
14.7	ADGR (AUS):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, LTD QTY (IP VOL ≤ 1.0 L)
		15. REGULATORY INFORMATION
15.1	SARA Reporting Requirements:	This product contains <u>Selenious Acid</u> and <u>Phosphoric Acid</u> , substances subject to SARA Title III, section 313 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); Nitric Acid: 1,000 lbs (454 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 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:	<u>Selenious Acid</u> is found on the following state criteria lists: FL, MA, MN, PA, and WI. <u>Nitric Acid</u> is found on the following state criteria lists: FL, MA, MN, NJ, PA, and WA. <u>Phosphoric Acid</u> 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). This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to <u>www.P65Warnings.ca.gov</u> .
15.8	Other Requirements:	This product is found on the following inventory lists: Australia - AICS, China – IECSC, Europe – ELINCS/EINEC, Japan – ENCS; Korea – KECI; New Zealand – NZIoC; {Philippines – PICCS; USA – TSCA.

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		16. OTHER INFO	ORMATION
16.1	Other Information:	ORGANS THROUGH PROLONGED OR REPEATED clothing/ combustible materials. Do not breathe dust o drink, or smoke when using this product. Avoid releas protection/ face protection. IF SWALLOWED: Rinse Ma and keep comfortable for breathing IF IN EYES: Rins	•
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for applicable knowledge, the information contained herein is reli completeness is not guaranteed and no warranties o contained herein relates only to the specific product	HA's Hazard Communication Standard, 29 CFR §1910.1200. Other lity to this product. To the best of ShipMate's & Birchwood Technologies' able and accurate as of this date; however, accuracy, suitability or f any type, either expressed or implied, are provided. The information (s). If this product(s) is combined with other materials, all component from time to time. Be sure to consult the latest edition.
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:

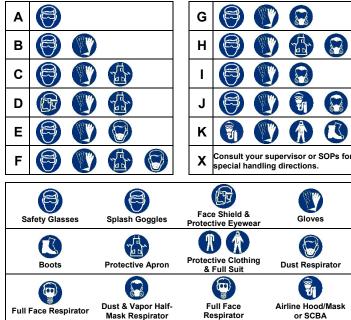
CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

PERSONAL PROTECTION RATINGS:



OTHER STANDARD ABBREVIATIONS:

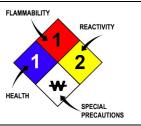
Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILI	TY LIMITS IN AIR:
Autoignition 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	FLA
1	Slight Hazard	FLA
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	<
ALK	Alkaline	
COR	Corrosive	/
W	Use No Water	HEA
OX	Oxidizer	
TREFOIL	Radioactive	



TOXICOLOGICAL INFORMATION:

LD ₅₀	LD ₅₀ Lethal Dose (solids & liquids) which kills 50% of the exposed animal		
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 _{lo} , LD _{lo} , & 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			
тс	Transport Canada			
EPA	U.S. Environmental Protection Agency			
DSL	Canadian Domestic Substance List			
NDSL	Canadian Non-Domestic Substance List			
PSL	SL Canadian Priority Substances List			
TSCA	SCA 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	۲	٢	Ø	Ē			
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