

Page 1 of 6 **BC-009** 

		1	PRODUC	T & COM	DΔNV	IDE	NTIE		TIO	N				
1.1	Product Name:	1		ETAL FIN		IDL	14 1 11	ICA	110	1 1				
	01		SLACK IVI	EIAL FIN	ПОП									
1.2	Chemical Name:	Acid Mixture												
1.3	Synonyms:	15225, 15232												
1.4	Trade Names:	Brass Black N	letal Finish											
1.5	Product Use:	Blackening So	olution for Bras	ss & Copper										
1.6	Distributor's Name:	Birchwood Ca	Birchwood Casey, LLC											
.7	Distributor's Address:	3260 Winpark	3260 Winpark Drive, New Hope, MN., 55427 USA											
8.1	Emergency Phone:	ChemTrec -	+1 (800) 424·	-9300 / +1 (70	3) 527-3	<b>8887</b> o	r Pois	son C	ontro	I Cent	ter +1	(866)	291-7°	152
1.9	Business Phone / Fax:	+1 (952) 388-	6717		-									
			2 H	AZARDS I	DENT	IFIC	ΔΤΙ	)N						
2.1	Hazard Identification:	This was direct										4 - 41 - 4	-l:£:-	
	riazara raominisationi			s a hazardous ADG Code (Au		e and a	as dan	igerous	s good	s accc	ording	to the	ciassilic	ation criteria
		-	` /-	/ALLOWED. N	,	ISE S	EVED	E GKI	N DII	DNG (	10 E1	/E DA	MAGE	MAY CALIS
				HROUGH PRO										
			LASTING EFF		LONGEL	OK I	\L! L/	ישווא	LAI O	JUIL.	V LIV	IOAI	C 10 /	AGOATIC LII
				Skin Cor. 1; S	TOT RF 2	. Anna	tic Chr	onic 1						
2.2	Label Elements:			301 – Toxic if					severe	skin ł	nurns	and ev	6	_
				e damage to o										
				n long lasting ef		Jugii p	lololig	CG 01 1	ороши	o cxp	oouic.	11410		
				(P): P264 – W		uahly	after h	andlin	a P26	:n _ D	o not	hreatha	_	0.0
				t eat, drink or s										
			the environment. P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or											
			2301+P310 -	IF SWALLC	WEĎ: Ir	mmedia								PW
							ately	call a	a POI	SON	CENT	ER o	r	正是
		doctor/physic	ian. P303+P36	61+P353 – IF C	N SKIN (	or hair)	ately : Take	call a off im	a POI media	SON tely all	CENT contai	ER o minated	r d	下屋.
		doctor/physic clothing. Rins	ian. P303+P36 se skin with wa	61+P353 – IF Cater [or shower]	N SKIN ( ]. P305+F	or hair) 2351+P	ately : Take :338 IF	call a offim IN E	a POI media YES: F	SON tely all Rinse c	CENT contar autiou	ER o minated sly with	d n	T.
		doctor/physic clothing. Rins water for sev	ian. P303+P36 se skin with wa eral minutes.	61+P353 – IF C ater [or shower] Remove conta	N SKIN ( ]. P305+F ct lenses,	or hair) 2351+P , if pre	ately : Take :338 IF sent a	call a offim IN E nd eas	a POI media YES: F sy to c	SON tely all Rinse o lo. Coi	CENT contar autiou ntinue	ER o minated sly with rinsing	d h	
		doctor/physic clothing. Rins water for sev P314 – Get	ian. P303+P36 se skin with water reral minutes. medical advic	S1+P353 - IF Cater [or shower] Remove contace/attention if y	ON SKIN ( ]. P305+F ct lenses, you feel	or hair) 2351+P , if preaunnell.	ately : Take :338 IF sent a P321	call a off im IN E' nd eas - Sp	a POI media YES: F sy to d ecific	SON tely all Rinse o lo. Cou treatm	CENT contai autiou ntinue ents s	ER ominated sly with rinsing this see this	or d n l. s	**************************************
		doctor/physic clothing. Rins water for sev P314 – Get container lab	ian. P303+P36 se skin with wateral minutes. medical advicel or section 4	S1+P353 – IF Cater [or shower] Remove contace/attention if y 4 of this SDS.	ON SKIN ( ]. P305+F ct lenses, you feel P330 – F	or hair) 2351+P , if pre: unwell. Rinse m	ately Take 338 IF sent a P321 nouth.	call a e off im IN E' nd eas - Sp P391	a POI media YES: F sy to d ecific – Coll	SON tely all Rinse of lo. Con treatm ect spi	CENT contai cautiou ntinue ents s illage.	ER ominated sly with rinsing see this P405 -	or d n l. s	
		doctor/physic clothing. Rins water for sev P314 – Get container lab	ian. P303+P36 se skin with wateral minutes. medical advicel or section 4	S1+P353 - IF Cater [or shower] Remove contace/attention if y	ON SKIN ( ]. P305+F ct lenses, you feel P330 – F	or hair) 2351+P , if pre: unwell. Rinse m	ately Take 338 IF sent a P321 nouth.	call a e off im IN E' nd eas - Sp P391	a POI media YES: F sy to d ecific – Coll	SON tely all Rinse of lo. Con treatm ect spi	CENT contai cautiou ntinue ents s illage.	ER ominated sly with rinsing see this P405 -	or d n l. s	
.3	Other Warnings:	doctor/physic clothing. Rins water for sev P314 – Get container lab Store locked	ian. P303+P36 se skin with wateral minutes. medical advicel or section 4 up. P501 - Dis	61+P353 – IF Cater [or shower] Remove contace/attention if y 4 of this SDS. pose of content	ON SKIN ( ]. P305+F ct lenses, you feel P330 – F ts/ contair	or hair) 2351+P , if pre: unwell. Rinse m ner to a	ately I: Take I:338 IF sent a P321 nouth. n appr	call a e off im F IN E' nd eas - Sp P391 roved v	a POI imedia YES: F sy to d ecific – Coll waste d	SON tely all Rinse of lo. Con treatm ect spi disposa	CENT contai cautiou ntinue ents s illage. al plant	ER ominated sly with rinsing see this P405 -	d d n i. s	Doison cont
.3	Other Warnings:	doctor/physic clothing. Rins water for sev P314 – Get container lab Store locked	ian. P303+P36 se skin with wateral minutes. medical advicel or section 4 up. P501 - Dis	61+P353 – IF Cater [or shower] Remove contace/attention if y 4 of this SDS. pose of content	DN SKIN ( ]. P305+F ct lenses, you feel P330 – F ts/ contair	or hair) 2351+P , if pre: unwell. Rinse m ner to a ving th	ately E Take 2338 IF sent a P321 nouth. n appr	call a e off im F IN E' nd eas - Sp P391 roved v	media YES: F sy to d pecific — Coll waste d	SON tely all Rinse of to. Con treatm ect spi disposa	CENT contai cautiou ntinue ents s illage. al plant	ER ominated sly with rinsing see this P405 -	d d n i. s	I poison conf
.3	Other Warnings:	doctor/physic clothing. Rins water for sev P314 – Get container lab Store locked  In the event contert, who make the content of the content o	ian. P303+P36 se skin with wateral minutes. medical advicel or section 4 up. P501 - Dis	61+P353 – IF Cater [or shower] Remove contace/attention if y 4 of this SDS. pose of content or or medical inceefrom the U.S.	DN SKIN ( ]. P305+F ct lenses, you feel P330 – F ts/ contair	or hair) 2351+P , if pre: unwell. Rinse m ner to a ving th	ately E Take 2338 IF sent a P321 nouth. n appr	call a e off im F IN E' nd eas - Sp P391 roved v	media YES: F sy to d pecific — Coll waste d	SON tely all Rinse of lo. Con treatm ect spi disposa	CENT contai cautiou ntinue ents s illage. al plant	ER ominated sly with rinsing see this P405 -	d d n i. s	I poison cont
.3	Other Warnings:	doctor/physic clothing. Rins water for sev P314 – Get container lab Store locked  In the event content, who make the content of the content o	ian. P303+P36 se skin with waveral minutes. medical advicel or section 4 up. P501 - Dis of an exposure nay seek advicer. F REACH OF	61+P353 – IF Cater [or shower] Remove contace/attention if y 4 of this SDS. pose of content e or medical ince from the U.S. CHILDREN.	DN SKIN ( ]. P305+F ct lenses, you feel P330 – F ts/ contair quiry invol manufact	or hair) P351+P , if pre- unwell. Rinse m ner to a  ving th turer, a	ately: Take: 338 IF sent a P321 nouth. n appr	call as e off immediant of the case of the	a POI media YES: F sy to c pecific - Coll waste c lease m this	SON tely all Rinse c lo. Con treatm ect spi disposa contac SDS.	CENT contai cautiou ntinue ents s illage. al plant	ER ominated sly with rinsing see this P405 -	d d n i. s	I poison conf
.3	Other Warnings:	doctor/physic clothing. Rins water for sev P314 – Get container lab Store locked  In the event content, who make the content of the content o	ian. P303+P36 se skin with waveral minutes. medical advicel or section 4 up. P501 - Dis of an exposure nay seek advicer. F REACH OF	61+P353 – IF Cater [or shower] Remove contace/attention if y 4 of this SDS. pose of content or or medical inceefrom the U.S.	DN SKIN ( ]. P305+F ct lenses, you feel P330 – F ts/ contair quiry invol manufact	or hair) P351+P , if pre- unwell. Rinse m ner to a  ving th turer, a	ately: Take: 338 IF sent a P321 nouth. n appr	call as e off immediant of the case of the	a POI imedia YES: F sy to co pecific - Coll waste coments I lease m this	SON tely all Rinse of lo. Col treatm ect spi disposa contac SDS.	CENT contain cautiou ntinue ents sillage. al plant t a phy	ER ominated sly with rinsing see this P405 -t.	or loca	I poison conf
2.3	Other Warnings:	doctor/physic clothing. Rins water for sev P314 – Get container lab Store locked  In the event content, who make the content of the content o	ian. P303+P36 se skin with waveral minutes. medical advicel or section 4 up. P501 - Dis of an exposure nay seek advicer. F REACH OF	61+P353 – IF Cater [or shower] Remove contace/attention if y 4 of this SDS. pose of content e or medical ince from the U.S. CHILDREN.	DN SKIN ( ]. P305+F ct lenses, you feel P330 – F ts/ contair quiry invol manufact	or hair) 2351+P , if pre- unwell. Rinse mer to a ving th turer, a	ately: Take: 338 IF sent a P321 nouth. n appr	call as e off immediant of the case of the	a POI imedia YES: F sy to co pecific - Coll waste coments I lease m this	SON tely all Rinse of lo. Con treatm ect spi disposa contact SDS.	CENT contain cautiou ntinue ents sillage. al plant t a phy	ER ominated sly with rinsing see this P405 -	or loca	I poison conf
2.3	Other Warnings:	doctor/physic clothing. Rins water for sev P314 – Get container lab Store locked  In the event content, who make the content of the content o	ian. P303+P36 se skin with waveral minutes. medical advicel or section 4 up. P501 - Dis of an exposure nay seek advicer. F REACH OF	61+P353 – IF Cater [or shower] Remove contace/attention if y 4 of this SDS. pose of content e or medical ince from the U.S. CHILDREN.	DN SKIN ( ]. P305+F ct lenses, you feel P330 – F ts/ contair quiry invol manufact	or hair) 2351+P , if pre- unwell. Rinse m her to a ving th turer, a	ately Take 338 IF sent a P321 nouth. n appr is prod nd sho	call as e off immediant of the case of the	media YES: F sy to co pecific - Coll waste co lease m this	SON tely all Rinse of lo. Con treatm ect spi disposa contact SDS.	CENT contain cautiou ntinue ents sillage. al plant t a phy	ER ominated sly with rinsing see this P405 -t.	or loca	I poison conf
3	Other Warnings:	doctor/physic clothing. Rins water for sev P314 – Get container lab Store locked  In the event content, who make the content of the content o	ian. P303+P36 se skin with waveral minutes. medical advicel or section 4 up. P501 - Dis of an exposure nay seek advicer. F REACH OF	61+P353 – IF Cater [or shower] Remove contace/attention if y 4 of this SDS. pose of content e or medical ince from the U.S. CHILDREN.	DN SKIN ( ]. P305+F ct lenses, you feel P330 – F ts/ contair quiry invol manufact	or hair) 2351+P , if pre- unwell. Rinse m her to a ving th turer, a	ately: Taker: 338 IF sent a P321 nouth. n apprind shouth	call as e off immediant of the case of the	POI  media YES: F sy to co pecific  Coll waste co lease m this  WAT  EXPO NOHSC  ppm ES-	SON tely all Rinse of the control of	CENT contain c	ER ominated sly with rinsing see this P405 - t.  VSICIAN VSICIAN OSHA ppm	or loca	I poison cont
	Other Warnings:	doctor/physic clothing. Rins water for sev P314 – Get container lab Store locked  In the event of center, who make the country of the country	ian. P303+P36 se skin with wa reral minutes. medical advicel or section 4 up. P501 - Dis of an exposure ray seek advice F REACH OF DMPOSIT  RTECS No.	61+P353 – IF Cater [or shower] Remove contace/attention if y4 of this SDS. pose of contents or medical ince from the U.S. CHILDREN.	DN SKIN (	or hair) P351+P , if presumwell. Rinse maler to a ving th turer, a  ENT  AC  PI  TLV	ately: Take: 338 IF sent a P321 nouth. n appring showing the street of t	call as off ime IN E' IN	MAT  EXPO  NOH  ES-  STEL	SON tely all Rinse of lo. Color treatmeet spidisposa contact SDS.	CENT contain c	ER ominated sly with rinsing see this P405 - t.  AIR (mg OSHA ppm STEL	or loca	I poison cont
ІЕМІ	ICAL NAME(S)	doctor/physic clothing. Rins water for sev P314 – Get container lab Store locked  In the event content, who make the content of the content o	ian. P303+P36 se skin with wa reral minutes. medical advic el or section 4 up. P501 - Dis of an exposure hay seek advic F REACH OF	61+P353 – IF Cater [or shower] Remove contace/attention if y 4 of this SDS. pose of content e or medical ince from the U.S. CHILDREN.	DN SKIN ( ]. P305+F ct lenses, you feel P330 - F ts/ contair quiry invol manufact	or hair) P351+P , if presumwell. Rinse maler to a ving th turer, a  ENT  AC  PI  TLV	ately: Take: 338 IF sent a P321 nouth. n appring showing the street of t	call as off ime IN E's nd eas - Sp P391 roved votate, pow their	MAT  EXPO  NOH  ES-  STEL	SON tely all Rinse of the control of	CENT contain c	ER ominated sly with rinsing see this P405 - t.  AIR (mg OSHA ppm STEL	or loca	
HEMI ATE	ICAL NAME(S)	doctor/physic clothing. Rins water for sev P314 – Get container lab Store locked  In the event of center, who make the country of the country	ian. P303+P36 se skin with wa reral minutes. medical advicel or section 4 up. P501 - Dis of an exposure ray seek advice F REACH OF DMPOSIT  RTECS No.	61+P353 – IF Cater [or shower] Remove contace/attention if y4 of this SDS. pose of contents or medical ince from the U.S. CHILDREN.	DN SKIN (	or hair) P351+P , if presumwell. Rinse maler to a ving th turer, a  ENT  AC  PI  TLV	ately: Take: 338 IF sent a P321 nouth. n appring showing the street of t	call as off ime IN E' IN	MAT  EXPO  NOH  ES-  STEL	SON tely all Rinse of lo. Color treatmeet spidisposa contact SDS.	CENT contain c	ER ominated sly with rinsing see this P405 - t.  AIR (mg OSHA ppm STEL	or loca	
<b>IEMI</b>	ICAL NAME(S)	doctor/physic clothing. Rins water for sev P314 – Get container lab Store locked  In the event of center, who mixEEP OUT O  CAS No.  7732-18-5	ian. P303+P36 se skin with wa reral minutes. medical advicel or section 4 up. P501 - Dis of an exposure ray seek advice FREACH OF DMPOSIT  RTECS No. ZC0110000	61+P353 – IF Cater [or shower] Remove contace/attention if y 4 of this SDS. pose of content be or medical incee from the U.S. CHILDREN.  TON & INC  EINECS No. 231-791-2	DN SKIN (  ]. P305+F ct lenses, you feel P330 - F ts/ contair quiry invol manufact  GREDI  % 60-100	or hair) P351+P, if presumwell. Rinse mer to a ving th turer, a  ENT AC PI TLV NA	ately : Take :338 IF sent a P321 nouth. n appr is proc nd sho	call as off ime IN E' IN	MAT  EXPO  EXP  EXP	SON tely all kinse of lo. Color treatmeet spidisposa contact SDS.  ION SURE L  ES-PEAK NF	CENT contain c	ER ominated sly with rinsing see this P405 - t.  AIR (mg OSHA ppm STEL NA	or loca	
HEMI ATE	ICAL NAME(S) ER SPHORIC ACID	doctor/physic clothing. Rins water for sev P314 – Get container lab Store locked  In the event of center, who mixEEP OUT O  CAS No. 7732-18-5 7664-38-2	ian. P303+P36 se skin with wa reral minutes. medical advicel or section 4 up. P501 - Dis of an exposure ray seek advice FREACH OF DMPOSIT  RTECS No. ZC0110000	61+P353 – IF Cater [or shower] Remove contace/attention if y 4 of this SDS. pose of content be or medical incee from the U.S. CHILDREN.  TON & INC  EINECS No. 231-791-2	DN SKIN (  ]. P305+F ct lenses, you feel P330 - F ts/ contair quiry invol manufact  GREDI  % 60-100	or hair) P351+P, if presumwell. Rinse mer to a ving th turer, a  ENT AC PI TLV NA	ately : Take :338 IF sent a P321 nouth. n appr is proc nd sho	call as off ime IN E' IN	MAT  EXPO  EXP  EXP	SON tely all kinse of lo. Color treatmeet spidisposa contact SDS.  ION SURE L  ES-PEAK NF	CENT contain c	ER ominated sly with rinsing see this P405 - t.  AIR (mg OSHA ppm STEL NA	or loca	
HEMI ATE	ICAL NAME(S)	doctor/physic clothing. Rins water for sev P314 – Get container lab Store locked  In the event of center, who mice when the center is contained as a contain	ian. P303+P36 se skin with wateral minutes. medical advicel or section 4 up. P501 - Dis of an exposure fray seek advice F REACH OF  MPOSIT  RTECS No. ZC0110000  TB6300000 H314 VS7175000	61+P353 – IF Cater [or shower] Remove contace/attention if y4 of this SDS. pose of contents or medical ince from the U.S. CHILDREN.  EINECS No. 231-791-2  231-633-2	DN SKIN (  ]. P305+F ct lenses, you feel P330 – F ts/ contair quiry invol manufact  GREDI  % 60-100  7-13	or hair) P351+P, if presumwell. Rinse mer to a ving th turer, a  ENT AC PR TLV NA (1)	ately: Take: 338 IF sent a P321 nouth. n appring the sent a P321 nouth. INF	call as off ime IN EVEN IN EVE	MAT  EXPO NOHSC  Ppm  ES- STEL  NF	SON tely all kinse of lo. Con treatment spidisposa contact SDS.  ION SURE L  ES-PEAK  NF  NF	CENT contain c	MAIR (mg OSHA Ppm STEL NA	or loca  or loca  IDLH NA	OTHER
HEMI ATE HOS	ICAL NAME(S) ER EPHORIC ACID NIOUS ACID	doctor/physic clothing. Rins water for sev P314 – Get container lab Store locked  In the event of center, who mice when the center is contained as a contain	ian. P303+P36 se skin with wateral minutes. medical advicel or section 4 up. P501 - Dis of an exposure fray seek advice F REACH OF  MPOSIT  RTECS No. ZC0110000  TB6300000 H314 VS7175000	61+P353 – IF Cater [or shower] Remove contace/attention if y4 of this SDS. pose of contents or medical ince from the U.S. CHILDREN.  EINECS No. 231-791-2  231-633-2	DN SKIN (  ]. P305+F ct lenses, you feel P330 – F ts/ contair quiry invol manufact  GREDI  % 60-100  7-13	or hair) P351+P, if presumwell. Rinse mer to a ving th turer, a  ENT AC PR TLV NA (1)	ately: Take: 338 IF sent a P321 nouth. n appring the sent a P321 nouth. INF	call as off ime IN EVEN IN EVE	MAT  EXPO NOHSC  Ppm  ES- STEL  NF	SON tely all kinse of lo. Con treatment spidisposa contact SDS.  ION SURE L  ES-PEAK  NF  NF	CENT contain c	MAIR (mg OSHA Ppm STEL NA	or loca  or loca  IDLH NA	OTHER
HEMI ATE HOS	ICAL NAME(S) ER SPHORIC ACID	doctor/physic clothing. Rins water for sev P314 – Get container lab Store locked  In the event of center, who mice when the center, who mice was a contained on the center of the center	ian. P303+P36 ie skin with wa eral minutes. medical advic el or section 4 up. P501 - Dis of an exposure hay seek advic F REACH OF  DMPOSIT  RTECS No. ZC0110000  TB6300000 H314 VS7175000 -Inh 3; Acute To	61+P353 – IF Cater [or shower] Remove contace/attention if yas of this SDS. pose of contents or medical incention in the transfer of the U.S. CHILDREN.  EINECS No. 231-791-2  231-633-2  231-974-7  xicity-Oral 3; STC	DN SKIN (  ]. P305+F ct lenses, you feel P330 – F ts/ contair quiry invol manufact  GREDI  % 60-100  7-13	or hair) P351+P, if presumwell. Rinse mer to a ving th turer, a  ENT AC PR TLV NA  (1)  (0.2) Cute Aquite P351-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	ately : Take : Take : 338 IF sent a     P321 nouth. n appr is proo nd sho  INF GIH DM STEL NA (3) NA uatic To	call as off ime IN EY nd eas - Sp P391 roved when the ES-TWA NF (0.2) exicity 1	MAT  EXPO NOHSC  PM  S  S  S  S  S  S  S  S  S  S  S  S  S	SON tely all	CENT contait c	ER ominated sly with rinsing see this P405 - t.  Visician  AIR (mg OSHA ppm STEL NA NA City 1); H	or loca  or loca  J/m³)  IDLH  NA  1000  NA  H301, H3	OTHER
IEMI ATE HOS ELEI	ER SPHORIC ACID NIOUS ACID	doctor/physic clothing. Rins water for sev P314 — Get container lab Store locked  In the event content, who make the content of the content o	ian. P303+P36 ie skin with wa eral minutes. medical advic el or section 4 up. P501 - Dis of an exposure hay seek advic F REACH OF  DMPOSIT  RTECS No. ZC0110000  TB6300000 H314 VS7175000 -Inh 3; Acute To	61+P353 – IF Cater [or shower] Remove contace/attention if yas of this SDS. pose of contents or medical incention in the transfer of the U.S. CHILDREN.  EINECS No. 231-791-2  231-633-2  231-974-7  xicity-Oral 3; STC	DN SKIN (  ]. P305+F ct lenses, you feel P330 – F ts/ contair quiry invol manufact  GREDI  % 60-100  7-13	or hair) P351+P, if presumwell. Rinse mer to a ving th turer, a  ENT AC PR TLV NA  (1)  (0.2) Cute Aquite P351-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	ately : Take : Take : 338 IF sent a     P321 nouth. n appr is proo nd sho  INF GIH DM STEL NA (3) NA uatic To	call as off ime IN EY nd eas - Sp P391 roved when the ES-TWA NF (0.2) exicity 1	MAT  EXPO NOHSC  PM  S  S  S  S  S  S  S  S  S  S  S  S  S	SON tely all	CENT contait c	ER ominated sly with rinsing see this P405 - t.  Visician  AIR (mg OSHA ppm STEL NA NA City 1); H	or loca  or loca  J/m³)  IDLH  NA  1000  NA  H301, H3	OTHER
HEMI ATE HOS ELEI JPR	ICAL NAME(S) ER EPHORIC ACID NIOUS ACID	doctor/physic clothing. Rins water for sev P314 — Get container lab Store locked  In the event center, who make the container lab Store locked  In the event center, who make the center, who make the center is contained by the center is contained by the center is contained by the contained by the contained by the center is contained by the cent	ian. P303+P36 ie skin with wa reral minutes. medical advic el or section 4 up. P501 - Dis of an exposure ray seek advic F REACH OF  DMPOSIT  RTECS No. ZC0110000  TB6300000 H314 VS7175000 -Inh 3; Acute To NA 4; H302 NA 4; Skin Irritation	61+P353 – IF Cater [or shower] Remove contace/attention if ya of this SDS. pose of contents or medical ince from the U.S. CHILDREN.  ION & INC  EINECS No. 231-791-2  231-633-2  231-974-7  xicity-Oral 3; STC NA  236-031-3 12; Eye Irritation 2	DN SKIN (  ]. P305+F ct lenses, you feel p330 – F ts/ contair quiry invol manufact  GREDI  7-13  1-5  T RE 2; Ac 1-5	or hair) P351+P , if pre: unwell. Rinse m her to a  ving th turer, a  ENT  AC  PI  TLV  NA  (1)  (0.2) Cute Aqu (1)  (10)	INF  GIH  STEL  NA  NA  Organ T	call as off ime IN E IN	MAT  EXPO NOHSC  ppm  ES- STEL  NF  NF  NF  Single B	SON tely all kinse c lo. Col treatm ect spi disposa contact SDS.  ION SURE L  ES- PEAK NF  NF  NF  C Aqua NF	CENT contain c	PAUS - I AIR (mg OSHA PPM STEL NA City 1); F NA	or loca  or loca  IDLH  NA  1000  NA  NA  NA	OTHER
IEMI ATE HOS ELEI JPR	ER SPHORIC ACID NIOUS ACID	doctor/physic clothing. Rins water for sev P314 — Get container lab Store locked  In the event center, who make the container lab Store locked  In the event center, who make the center, who make the center is contained by the center is contained by the center is contained by the contained by the contained by the center is contained by the cent	ian. P303+P36 ie skin with wa reral minutes. medical advic el or section 4 up. P501 - Dis of an exposure ray seek advic F REACH OF  DMPOSIT  RTECS No. ZC0110000  TB6300000 H314 VS7175000 -Inh 3; Acute To NA 4; H302 NA	61+P353 – IF Cater [or shower] Remove contace/attention if y 4 of this SDS. pose of content e or medical ince from the U.S. CHILDREN.  ION & INC  EINECS No. 231-791-2  231-633-2  231-974-7 xicity-Oral 3; STC NA  236-031-3	DN SKIN (  ]. P305+F ct lenses, you feel p330 – F ts/ contair quiry invol manufact  GREDI  7-13  1-5  T RE 2; Ac 1-5	or hair) P351+P , if pre: unwell. Rinse m her to a  ving th turer, a  ENT  AC  PI  TLV  NA  (1)  (0.2) Cute Aqu (1)  (10)	INF  GIH  STEL  NA  NA	call as off ime IN E IN	MAT  EXPO  NOHSC  PPM  STEL  NF  NF	SON tely all kinse c lo. Col treatm ect spi disposa contact SDS.  ION SURE L  ES- PEAK NF  NF  NF  C Aqua NF	CENT contain c	PAUS - I AIR (mg OSHA PPM STEL NA City 1); F NA	or loca  or loca  IDLH  NA  1000  NA  NA  NA	OTHER



Page 2 of 6

BC-009

			4. FIRST AID MEASURES	
4.1	First Aid:	Ingestion:	DO NOT INDUCE VOMITING. Contact Poison Control Cer Control Center or local emergency telephone number for a medical attention. If vomiting occurs spontaneously, keep visk of aspiration.	assistance and instructions. Seek immediate
		Eyes:	If product gets in the eyes, flush eyes thoroughly with copic holding eyelid(s) open to ensure complete flushing. If the following use, consult a physician or emergency room immediately.	he eyes or face become swollen during or
		Skin:	Remove contaminated clothing and wash affected areas and/or the skin reaction worsens, contact a physician immuntil after it has been properly cleaned.	with soap and water. If discomfort persists
		Inhalation:	Remove victim to fresh air at once. Under extreme correspiration. Seek immediate medical attention.	nditions, if breathing stops, perform artificial
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 me	embranes. 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	
4.4	Acute Health Effects:		mful if inhaled. Material is extremely destructive to the tist	
4.5	Chronic Health Effects:		act. May be harmful if swallowed. Causes burns. May be harm	nui ii absorbed trirougri skiri.
4.6	Target Organs:	, ,	the nervous system, kidney and/or liver.	Dlood Forming Organo Bonco
4.7	Medical Conditions		lervous System, Kidneys, Liver, Respiratory System, Spleen, E	
4.7	Aggravated by Exposure:		e skin respiratory system liver blood-forming organs) or	HEALTH 3
			ney function may be more susceptible to the effects of this	FLAMMABILITY 0
		substance.		PHYSICAL HAZARDS 0
				PROTECTIVE EQUIPMENT H
			<u> </u>	EYES SKIN LUNGS
4.8	Notes to Physician:	This product	contains Selenious Acid and is potentially fatal if ingested	
4.0	Notes to Friguesian.	should be cor	nsidered in asymptomatic or minimally symptomatic patients nulti-organ failure may occur. 24/7 medical toxicology consultates	as delayed toxic effects including pulmonary
			5. FIREFIGHTING MEASURES	
5.1	Fire & Explosion Hazards:		ole. May react with metals to release hydrogen gas, which ca intensity fire; oxidizer.	an form explosive mixtures
5.2	Extinguishing Methods:	Use fire-exting	guishing media appropriate for surrounding materials.	_
5.3	Firefighting Procedures:	approved or e as for surrou degradation r	fire, firefighters should wear appropriate protective equipment equivalent self-contained breathing apparatus (SCBA) and pro ounding materials. Hazardous decomposition products m may produce oxides of carbon, phosphorous, selenium and	otective clothing. Fight fires lay be released. Thermal Wor nitrogen, hydrocarbons
		the fire is our	tives. Fire should be fought from a safe distance. Keep con it. Use water spray to cool fire-exposed surfaces and to p rent runoff from fire control or dilution from entering sewers, dr. I waterway.	rotect personal. Fight fire
			•	, ,
6.4	Coille		6. ACCIDENTAL RELEASE MEASURES	
6.1	Spills:	Equipment (P apron, boots, Small Spills: V inert material Large Spills:	ing any spill or leak, individuals involved in spill cleanup PPE). Use safety glasses or safety goggles and face shield; u etc.) to prevent skin contact.  Wear appropriate protective equipment including gloves and such as vermiculite or sand to soak up the product and place. Keep incompatible materials (e.g., organics such as oil) awa solate immediate hazard area and keep unauthorized personnice.	use gloves and other protective clothing (e.g., protective eyewear. Use a non-combustible, into a container for later disposal. by from spill. Stay upwind and away from spill



Page 3 of 6

BC-009

		7. HANDLING	3 & ST	ORAG	E INFO	DRMA	TION				
7.1	Work & Hygiene Practices:	Avoid breathing mists or spray.									
		of the reach of children. Do not									
		expose to heat and flame. Use only in ventilated areas. Keep out of the reach of children. Immediately clean-decontaminate any spills or residues.								clean-up and	
7.2	Storage & Handling:	Use and store in a cool, dry,		ted locat	ion (e.a. l	ocal exh	aust venti	lation fa	ns) away	/ from h	eat and direct
		sunlight. Store in acid-resistant									
		(120 °F). Keep away from incom									
7.3	Special Precautions:	Empty containers may retain ha	zardous pr	oduct res	idues.						
		8. EXPOSURE CON			RSON		ROTEC	CTION			
8.1	Exposure Limits: ppm (mg/m <sup>3</sup> )		AC	GIH		NOHSC ES-	ES-		OSHA	I	OTHER
	ppin (mg/m )	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	STEL	PEAK	PEL	STEL	IDLH	
		PHOSPHORIC ACID	(1)	(3)	1	3	NF	NA	NA	1000	
		SELENIOUS ACID	(0.2)	NA	(0.2)	NF	NF	(0.2)	NA	NA	
		CUPRIC PHOSPHATE	(10)	NA	NF	NF	NF.	1	NA	NA	
		AMMONIUM MOLYBDATE ZINC SULFATE	(10)	NA NA	NF NF	NF NF	NF NF	NA (1)	NA NA	NA NA	
8.2	Ventilation & Engineering	Use local or general exhaust ve									rated from the
	Controls:	handling of this product. Ensure station).	appropria	te decon	tamination	equipme	nt is availa	able (e.g.	, sink, sa	ifety sho	wer, eye-wash
8.3	Respiratory Protection:	In instances where vapors or sp	rays of this	product	are genera	ated, and	respirato	ry protect	ion is ne	eded,	
		use only protection authorized b									
		CAS Standard Z94.4-93 and	applicable	standard	ls of Cana	adian Pro	ovinces, E	C memb	per State	es, or	6.0
8.4	Eye Protection:	Australia.  Safety glasses with side shields shield is also recommended.	s must be	used wh	en handling	g or usin	g this prod	duct. A p	orotective	e face	
8.5	Hand Protection:	Wear protective, chemical-resist	ant gloves	(e.g., ne	oprene) wł	nen using	or handlir	ng this pr	oduct.		
8.6	Body Protection:	A chemical resistant apron and product.	d/or protect	tive cloth	ing are re	commen	ded when	handling	or usin	g this	An
		9. PHYSICA	L & CH	EMIC	AL PR	OPER	TIES				
9.1	Appearance:	Clear, blue liquid									
9.2	Odor: Thresholds	Odorless									
9.3	Odor Threshold: pH:	NA 0.00									
9.5	Melting Point/Freezing Point:	0.99 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:	1.094									
9.12	Solubility:	Complete (water)									
9.13	Partition Coefficient (log Pow):										
	Partition Coefficient (log Pow).	NA									
9.14	Autoignition Temperature:	NA NA									
9.14 9.15											
	Autoignition Temperature:	NA									
9.15	Autoignition Temperature:  Decomposition Temperature:	NA NA	ther = 1.0)								
9.15 9.16	Autoignition Temperature: Decomposition Temperature: Viscosity:	NA NA Evaporation Rate: < 1.0 (ethyl e									
9.15 9.16	Autoignition Temperature: Decomposition Temperature: Viscosity:	NA NA NA		Y & R	EACTI	VITY					
9.15 9.16	Autoignition Temperature: Decomposition Temperature: Viscosity:	NA NA Evaporation Rate: < 1.0 (ethyl e		Y & R	EACTI	VITY					
9.15 9.16 9.17	Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information:	NA NA NA Evaporation Rate: < 1.0 (ethyl e	ABILIT	ing age	nts can pr	oduce o					nide. Thermal
9.15 9.16 9.17	Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information: Stability: Hazardous Decomposition	NA NA NA Evaporation Rate: < 1.0 (ethyl e  10. ST Stable at normal temperatures. Reaction with organics and st	ABILIT	ing age	nts can pr	oduce o					nide. Thermal
9.15 9.16 9.17 10.1 10.2	Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information:  Stability: Hazardous Decomposition Products:	NA NA NA Evaporation Rate: < 1.0 (ethyl e  10. ST Stable at normal temperatures. Reaction with organics and st decomposition may produce sel	ABILIT	ing age	nts can pr	oduce o					nide. Thermal



Page 4 of 6 **BC-009** 

		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: YES
11.2	Toxicity Data:	Solution: $LD_{50}$ (oral, rat) = 1,030 mg/kg; Phosphoric Acid: $LD_{50}$ (oral, rat) = 1,530 mg/kg
1.3	Acute Toxicity:	See Section 4.4
1.4	Chronic Toxicity:	See Section 4.5
1.5	Suspected Carcinogen:	Components in this product are listed by IARC as Group 3 (Not classifiable as to its carcinogenicity to humans).
1.6	Reproductive Toxicity:	This product is not reported to cause reproductive toxicity in humans.
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.
1.7	Irritancy of Product:	See Section 4.2
1.8	Biological Exposure Indices:	NE .
1.9	Physician Recommendations:	Treat symptomatically.
		12. ECOLOGICAL INFORMATION
2.1	Environmental Stability:	There are no specific data available for this product.
2.2	Effects on Plants & Animals:	There are no specific data available for this product.
2.3	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
3.1	Waste Disposal:	Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropri
0	Tracio Biopodaii	disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, a
		federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage a
		disposal of hazardous waste must be provided by a licensed facility or waste hauler.
3.2	Special Considerations:	U.S. EPA Hazardous Waste - Characteristic - Corrosive (D002), Characteristic - Toxic (D010)
		14. TRANSPORTATION INFORMATION
The	basic description (ID Number.	proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive informa
may	be required by 49 CFR, IATA	ICAO, IMDG and the CTDGR.
4 4	49 CFR (GND):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
4.1		,,,,,
	IATA (AIR)*:	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)
4.2	IATA (AIR)*: IMDG (OCN):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)  UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID,
4.2	, ,	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)  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,
4.2 4.3 4.4	IMDG (OCN):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)  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, 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 ≤ 5.0 L)
4.2 4.3 4.4	IMDG (OCN):  TDGR (Canadian GND):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)  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, 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 ≤ 5.0 L)  UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO,
4.2 4.3 4.4 4.5	IMDG (OCN):  TDGR (Canadian GND):  ADR/RID (EU):  SCT (MEXICO):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)  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, 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 ≤ 5.0 L)
4.2 4.3 4.4 4.5	IMDG (OCN):  TDGR (Canadian GND):  ADR/RID (EU):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)  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, 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 ≤ 5.0 L)  UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO,
4.2 4.3 4.4 4.5	IMDG (OCN):  TDGR (Canadian GND):  ADR/RID (EU):  SCT (MEXICO):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)  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, 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 ≤ 5.0 L)  UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO FOSFORICO), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)  UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, 8)
4.2 4.3 4.4 4.5	IMDG (OCN):  TDGR (Canadian GND):  ADR/RID (EU):  SCT (MEXICO):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)  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, 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 ≤ 5.0 L)  UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO FOSFORICO), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)  UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
4.2 4.3 4.4 4.5 4.6	IMDG (OCN):  TDGR (Canadian GND):  ADR/RID (EU):  SCT (MEXICO):  ADGR (AUS):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)  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, 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 ≤ 5.0 L)  UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO FOSFORICO), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)  UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
4.2 4.3 4.4 4.5 4.6	IMDG (OCN):  TDGR (Canadian GND):  ADR/RID (EU):  SCT (MEXICO):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)  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, 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 ≤ 5.0 L)  UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO FOSFORICO), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)  UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)  15. REGULATORY INFORMATION  This product contains Selenious Acid, Cupric Sulfate and Phosphoric Acid, substances subject to SARA Title III, Sec
4.2 4.3 4.4 4.5 4.6 4.7	IMDG (OCN):  TDGR (Canadian GND):  ADR/RID (EU):  SCT (MEXICO):  ADGR (AUS):  SARA Reporting Requirements:	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)  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, 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 ≤ 5.0 L)  UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO FOSFORICO), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)  UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)  15. REGULATORY INFORMATION  This product contains Selenious Acid, Cupric Sulfate and Phosphoric Acid, substances subject to SARA Title III, Sec 313 reporting requirements.
4.2 4.3 4.4 4.5 4.6 4.7 5.1	IMDG (OCN):  TDGR (Canadian GND):  ADR/RID (EU):  SCT (MEXICO):  ADGR (AUS):  SARA Reporting Requirements:  SARA TPQ:	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)  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, 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 ≤ 5.0 L)  UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO FOSFORICO), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)  UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)  15. REGULATORY INFORMATION  This product contains Selenious Acid, Cupric Sulfate and Phosphoric Acid, substances subject to SARA Title III, Sec 313 reporting requirements.
4.2 4.3 4.4 4.5 4.6 4.7 5.1 5.2 5.3	IMDG (OCN):  TDGR (Canadian GND):  ADR/RID (EU):  SCT (MEXICO):  ADGR (AUS):  SARA Reporting Requirements:  SARA TPQ:  TSCA Inventory Status:	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)  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, 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 ≤ 5.0 L)  UN3264, LIQUIDOS, CORROSIVOS, ACIDIC, INORGANICO, N.E.P. (ACIDIO SELENIO, ACIDIO FOSFORICO), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)  UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)  **Total Components of this product are listed on the TSCA Inventory.**  The components of this product are listed on the TSCA Inventory.**
4.2 4.3 4.4 4.5 4.6 4.7 15.1 15.2 15.3	IMDG (OCN):  TDGR (Canadian GND):  ADR/RID (EU):  SCT (MEXICO):  ADGR (AUS):  SARA Reporting Requirements:  SARA TPQ:  TSCA Inventory Status:  CERCLA Reportable Quantity:	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)  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, 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 ≤ 5.0 L)  UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO FOSFORICO), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)  UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)  15. REGULATORY INFORMATION  This product contains Selenious Acid, Cupric Sulfate and Phosphoric Acid, substances subject to SARA Title III, Sec 313 reporting requirements.  NA  The components of this product are listed on the TSCA Inventory.  Selenious Acid: 10 lbs (4.54 kg); Cupric Sulfate: 10 lbs (4.54 kg); Phosphoric Acid: 5,000 lbs (2,270 kg)
4.1  4.2  4.3  4.4  4.5  4.6  4.6  4.7  15.1  15.2  15.3  15.4  15.5  15.6	IMDG (OCN):  TDGR (Canadian GND):  ADR/RID (EU):  SCT (MEXICO):  ADGR (AUS):  SARA Reporting Requirements:  SARA TPQ:  TSCA Inventory Status:	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)  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, 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 ≤ 5.0 L)  UN3264, LIQUIDOS, CORROSIVOS, ACIDIC, INORGANICO, N.E.P. (ACIDIO SELENIO, ACIDIO FOSFORICO), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)  UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)  **Total Components of this product are listed on the TSCA Inventory.**  The components of this product are listed on the TSCA Inventory.**



Page 5 of 6

BC-009

		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).
15.8	Other Requirements:	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 <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .
		other reproductive name. For more information go to www.r oowanings.ca.gov.
		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. Do not breathe dust or mist. Wash thoroughly after handling. Do not breathe dust/fume/vapor. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell. Specific treatment see this container label or section 4 of this SDS. Wash contaminated clothing before reuse. Collect spillage. Store locked up.  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 Casey, LLC 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 Casey, LLC 3260 Winpark Drive New Hope, MN 55427 USA Tel: +1 (952) 388-6717 Email: customerservice@birchwoodcasey.com <a href="mailto:http://www.birchwoodCasey.com">http://www.birchwoodCasey.com</a>
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



Page 6 of 6 **BC-009** 

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 2.1 SDS Revision Date: 10/25/2018

### **DEFINITION OF TERMS**

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

#### **GENERAL INFORMATION:**

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

#### **EXPOSURE LIMITS IN AIR:**

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

#### FIRST AID MEASURES:

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

#### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

#### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

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



### PERSONAL PROTECTION RATINGS:

Α			
В			
С		THE STATE OF THE S	
D	E STATE OF THE STA	THE STATE OF THE S	
Е			
F		THE STATE OF THE S	

G				
Н			H.	
I				
J			<b>FI</b>	
K	<b>F</b>		Ŵ	
Х	Consult y	our supe andling d	rvisor or irections.	SOPs for



#### OTHER STANDARD ABBREVIATIONS:

Carcinogenic
Irritant
Not Available
No Results
Not Determined
Not Established
Not Found
Self-Contained Breathing Apparatus
Sensitization
Specific Target Organ Toxicity – Repeat Exposure
Specific Target Organ Toxicity – Single Exposure

#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:							
Autoignition							
Temperature							
LEL Lower Explosive Limit - lowest percent of vapor in air, by volume, that							
	explode or ignite in the presence of an ignition source						
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will						
	explode or ignite in the presence of an ignition source						

#### **HAZARD RATINGS:**

0	Minimal Hazard	FLAMMABILITY
1	Slight Hazard	\
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/ <b>X W Y</b>
W	Use No Water	HEALTH
ох	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

#### TOXICOLOGICAL INFORMATION:

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

### REGULATORY INFORMATION:

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

### WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	<b>®</b>	<b>(2)</b>	(X)	$\Theta$	(%)		
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:

	<b>®</b>		$\Diamond$	N. C.		$\Diamond$		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment