

Page 1 of 6 **BTI-103**

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1.1	Product Name:		PRODUC											
4.0	01 : 111		BLACK [®]	22BI										
1.2	Chemical Name:	Acid Mixture												
1.3	Synonyms:	550050, 5500	- ,											
1.4	Trade Names:	Presto Black®												
1.5	Product Use:		olution for Stain	less Steel Allo	ys									
1.6	Distributor's Name:	Birchwood Lal	boratories LLC											
1.7	Distributor's Address:	7900 Fuller Ro	oad, Eden Prair	rie, MN 55344	USA									
1.8	Emergency Phone:	ChemTrec	+1 (800) 42	4-9300 / +1	(703)5	27-38	87 o	r Pois	son (Contr	ol Ce	enter	+1 (8	55) 281-1742
1.9	Business Phone / Fax:	+1 (952) 937-	-7900 / +1 (952) 937-7979										
			2. HA	AZARDS	IDENT	IFIC	ATIO	ON						
2.1	Hazard Identification:	Prepared in a	ccordance with						HA ar	nd FU s	standa	ards T	his pro	duct is classifie
		as a HAZARD	OUS SUBSTAI	NCE and as D	ANGERO	US GO	ODS a	accord	ina to	the cla	ssifica	tion cri	teria of	Australian WHS
			ions (WHSR) a											
			XIC IF SWALL							BURNS	AND	EYE D	AMAG	E. MAY CAUSI
		RESPIRATOR	RY IRRITATION	N. VERY TOXI	C TO AQ	UATIC	LIFE	WITH	LONG	LAST	ING E	FFEC1	ΓS.	
		Classification:	Acute Tox. 3, 8	Skin Corr. 1B,	STOT SE	3								
2.2	Label Elements:	Hazard Stater	ments (H): H30	1+H331 – Tox	cic if swal	lowed	or inha	aled. H	1314 –	Caus	es se\	vere sk	in	
			damage. H335											
		long lasting ef		·	•	•			•		•			Pa
		Precautionary	Statements (P): P220 - Keep	o/Store av	vay fror	m cloth	ning/ c	ombus	stible n	nateria	als. P26	0	<u> </u>
			the dust/mist/fu											
			ve gloves/ prote											Y
		or smoke whe										,	,	
		or smoke when using this product. P271 – Use only outdoors or in a well-ventilated area. P273 – Avoid release to the environment. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT									d area	. P273	-	
		Avoid release	to the environ	ment. P301+P	2330+P33	1 - IF :	SWAL	LOWE	D: Rir	nse mo	d area outh.	. P273 Do NO	_ T	Q
		Avoid release induce vomitir	to the environ ng. P303+P361	ment. P301+P +P35 – IF ON	2330+P33 I SKIN (or	1 - IF : hair):	SWAL Take	LOWE	D: Rir	nse mo ely cal	d area outh. I conta	. P273 Do NO aminate	– T ed	(\$Q)
		Avoid release induce vomitir clothing. Rinse	to the environing. P303+P361 e skin with water	ment. P301+P +P35 – IF ON er[or shower].	9330+P33 I SKIN (or P304+P3	1 - IF : hair): 40 – IF	SWAL Take (INHA	LOWE off imn LED: F	D: Rir nediat Remov	nse mo ely cal ver per	d area outh. I conta son to	. P273 Do NO aminate fresh a	– T ed iir	
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<u>CHEM</u>	ICAL NAME(S)	Avoid release induce vomitir clothing. Rinse and keep com P363 – Wash SDS or conta minutes. Rem exposes or coup. P501 – If medi P103 – Read event of an ey who may seek 3. C(CAS No. 7732-18-5 7647-01-0 Skin Corr. 1B, ST	to the environing. P303+P361 e skin with water fortable for breat contaminated iner label. P30 hove contact le incerned: Call a spose of contentical advice is nellabel before us exposure or medical advice from the COMPOSITION RTECS No. ZC0110000 MW4025000 MW40250	ment. P301+F +P35 – IF ON er[or shower]. athing. P310 - I clothing before 5+P351+P338 nses, if prese POISON CEN ts/ container to edd have pro e. P202 – Do lical inquiry inv e U.S. manufa ION & INC EINECS No. 231-791-2 231-595-7 H335	P330+P33 I SKIN (or P304+P3 mmediate er euse. F3 - IF IN E4 metal en reuse. F4 meta	1 - IF State hair): 40 - IF state hair): 4321 - EYES: 43321 - EYES: 4332	SWAL Take Take INHA POIS Specif Rinse do. Co aste di label all safe uct, ple v them STEL NA	LOWE off imn LED: F GON CI fic trea cautio continue bllect s lisposa at hance ety pre ease con this S FORI ES- TWA NF	ED: Rimediate Remove ENTEI atment to the surface of	nse moely cally er persent of the call of	d area buth. I conta son to octor/p ection ater for 608+P3 — Store EP OU we bee sician	P273 Do NO aminate fresh a hysician 4 of th re locke T OF R n read or loca N AIR (mg OSHA ppm STEL NA	EACH and ur I poiso	OTHER
<u>CHEM</u> WATI	ICAL NAME(S)	Avoid release induce vomitir clothing. Rinse and keep com P363 – Wash SDS or conta minutes. Rem exposes or coup. P501 - Dis P101 – If medi P103 – Read event of an expose who may seek 3. CC CAS No.	to the environing. P303+P361 e skin with water fortable for breat contaminated iner label. P30 nove contact lencerned: Call a spose of contentical advice is nellabel before us exposure or medical advice from the COMPOSIT	ment. P301+F +P35 – IF ON er[or shower]. athing. P310 - I clothing before 5+P351+P338 nses, if prese POISON CEN ts/ container to eeded have pro e. P202 – Do lical inquiry inv ee U.S. manufa ION & INC EINECS No. 231-791-2 231-595-7 H335 231-194-7	P330+P33 I SKIN (or P304+P3 mmediate er euse. F3 - IF IN E ent and ear TER/doct on the andle volving this acturer, ar PSFEDI % 60-100	1 - IF S hair): 40 - IF shy call a say to or. P39 oved water and show ENT ACC PP TLV NA 2 (0.2)	SWAL Take Take Take Take Take Take Take Take	LOWE off imm LED: F GON CI fic trea cautio continue bllect sp isposa at hanc ety pre ease co this S FORI S TWA NF 5 (0.2)	ED: Rimediate Remove ENTEI the surface rinsing pillage I plant d. P102 cautio contact EDS. WAT EXPC NOHSC PPM ES- STEL NF	rese modely cally rer person see so with warning. P30. P405.	d area buth. I conta son to octor/p ection ater for 608+P? — Store EP OU we bee sician	P273 Do NO aminate fresh a hysician 4 of th r sever 311 - I re locke T OF R n read or loca N AIR (ms OSHA ppm STEL NA 7	EACH and ur I poiso IDLH NA 50 (0.1)	derstood. In the
<u>CHEM</u> WATI	ICAL NAME(S) ER ROCHLORIC ACID	Avoid release induce vomitir clothing. Rinse and keep com P363 – Wash SDS or conta minutes. Rem exposes or coup. P501 - Dis P101 – If medi P103 – Read event of an expose who may seek 3. CC CAS No.	to the environing. P303+P361 e skin with water fortable for bread contaminated in the	ment. P301+F +P35 – IF ON er[or shower]. athing. P310 - I clothing before 5+P351+P338 nses, if prese POISON CEN ts/ container to eeded have pro e. P202 – Do lical inquiry inv ee U.S. manufa ION & INC EINECS No. 231-791-2 231-595-7 H335 231-194-7	P330+P33 I SKIN (or P304+P3 mmediate er euse. F3 - IF IN E ent and ear TER/doct on the andle volving this acturer, ar PSFEDI % 60-100	1 - IF S hair): 40 - IF shy call a say to or. P39 oved water and show ENT ACC PP TLV NA 2 (0.2)	SWAL Take Take Take Take Take Take Take Take	LOWE off imm LED: F GON CI fic trea cautio continue bllect sp isposa at hanc ety pre ease co this S FORI S TWA NF 5 (0.2)	ED: Rimediate Remove ENTEI the surface rinsing pillage I plant d. P102 cautio contact EDS. WAT EXPC NOHSC PPM ES- STEL NF	rese modely cally rer person see so with warning. P30. P405.	d area buth. I conta son to octor/p ection ater for 608+P? — Store EP OU we bee sician	P273 Do NO aminate fresh a hysician 4 of th r sever 311 - I re locke T OF R n read or loca N AIR (ms OSHA ppm STEL NA 7	EACH and ur I poiso IDLH NA 50 (0.1)	OTHER
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CHEM WATI HYDR	ICAL NAME(S) ER ROCHLORIC ACID	Avoid release induce vomitir clothing. Rinse and keep com P363 – Wash SDS or conta minutes. Remexposes or coup. P501 - Dis P101 – If medi P103 – Read event of an ey who may seek 3. CC CAS No. 7732-18-5 7647-01-0 Skin Corr. 1B, S77446-08-4 Acute Tox. 3; Ski H318, H330, H3416872-11-0	to the environing. P303+P361 e skin with water fortable for bread contaminated cont	ment. P301+F +P35 – IF ON er[or shower]. athing. P310 - I clothing before 5+P351+P338 nses, if prese POISON CEN ts/ container to eded have pro e. P202 – Do lical inquiry invie U.S. manufa ION & IN(EINECS No. 231-791-2 231-595-7 H335 231-194-7 Dam. 1; Acute To	P330+P33 I SKIN (or P304+P3. mmediate er reuse. F8 - IF IN E8 - IF IN E9 F8 - IF IN E9	1 - IF 3 hair): 40 - IF 8 hair): 40 - IF	SWAL Take Take INHA a POIS Specif Rinse do. Co aste di label a all safe uct, ple v them INF STEL NA Aquatic	LOWE off imm LED: F GON CI fic trea cautio continue bllect sp isposa at hance ety pre ease co this S FORI NF 5 (0.2) Acute	ED: Rimediate Remove ENTEI atment busly we rinsi pillage I plant d. P10: cautio ontact EDS. WAT EXPO NOHSC PPM ESSTEL NF 7.5	rese modely call rer period see so with warming. P3 . P405	d area buth. I conta son to octor/p ection ter for 108+P; — Store P OU re bee sician IMITS II PEL NA 5	P273 Do NO aminate fresh a hysician 4 of th r sever. 311 — I re locke T OF R n read or loca N AIR (mg OSHA ppm STEL NA 1 NA H301, H	TT ed iir n. iis all F ed	OTHER
CHEM WATI HYDF SELE	ER ROCHLORIC ACID ENIUM DIOXIDE	Avoid release induce vomitir clothing. Rinse and keep com P363 – Wash SDS or conta minutes. Remexposes or coup. P501 - Dis P101 – If medi P103 – Read event of an ey who may seek 3. CC CAS No. 7732-18-5 7647-01-0 Skin Corr. 1B, S77446-08-4 Acute Tox. 3; Ski H318, H330, H3416872-11-0	to the environing. P303+P361 e skin with water fortable for breat contaminated in the property of the property	ment. P301+F +P35 – IF ON er[or shower]. athing. P310 - I clothing before 5+P351+P338 nses, if prese POISON CEN ts/ container to eded have pro e. P202 – Do lical inquiry invie U.S. manufa ION & IN(EINECS No. 231-791-2 231-595-7 H335 231-194-7 Dam. 1; Acute To	P330+P33 I SKIN (or P304+P3. mmediate er reuse. F8 - IF IN E8 - IF IN E9 F8 - IF IN E9	1 - IF 3 hair): 40 - IF 8 hair): 40 - IF	SWAL Take Take INHA a POIS Specif Rinse do. Co aste di label a all safe uct, ple v them INF STEL NA Aquatic	LOWE off imm LED: F GON CI fic trea cautio continue bllect sp isposa at hance ety pre ease co this S FORI NF 5 (0.2) Acute	ED: Rimediate Remove ENTEI atment busly we rinsi pillage I plant d. P10: cautio ontact EDS. WAT EXPO NOHSC PPM ESSTEL NF 7.5	rese modely call rer period see so with warming. P3 . P405	d area buth. I conta son to octor/p ection ter for 108+P; — Store P OU re bee sician IMITS II PEL NA 5	P273 Do NO aminate fresh a hysician 4 of th r sever. 311 — I re locke T OF R n read or loca N AIR (mg OSHA ppm STEL NA 1 NA H301, H	TT ed iir n. iis all F ed	OTHER
CHEM WATI HYDF SELE	ER ROCHLORIC ACID	Avoid release induce vomitir clothing. Rinse and keep com P363 – Wash SDS or conta minutes. Rem exposes or co up. P501 - Dis P101 – If medi P103 – Read event of an ey who may seek 3. CC CAS No. 7732-18-5 7647-01-0 Skin Corr. 1B, ST 7446-08-4 Acute Tox. 3; Ski H318, H330, H34 16872-11-0 Acute Tox Oral 7664-38-2	to the environing. P303+P361 e skin with water fortable for breat contaminated in the spose of content ical advice is nearly advice from the spose of content ical advice is nearly advice from the spose of content ical advice is nearly advice from the spose of content ical advice is nearly advice from the spose of content ical advice is nearly advice from the spose of content ical advice ical advice from the spose of content ical advice ical advice from the spose of content ical advice ical advice from the spose of content ical advice ical adv	ment. P301+P +P35 – IF ON er[or shower]. athing. P310 - I clothing before 5+P351+P338 nses, if prese POISON CEN ts/ container to eded have pro e. P202 – Do lical inquiry invie U.S. manufa ION & IN(EINECS No. 231-791-2 231-595-7 H335 231-194-7 Dam. 1; Acute To 240-898-3 3 Serious Eye Da 231-633-2	330+P33 I SKIN (or P304+P3. mmediate er reuse. F8 - IF IN E8 TER/doct of an approduct contained than the facturer, ar SREDI 60-100 1-5 30x. 2' STOT 1-15 31x. 1; H301	1 - IF 3 hair): 40 - IF 8 hair): 40 - IF	SWAL Take Take INHA POIS Specif Rinse do. Co aste di label all safe uct, ple v them INF STEL NA Aquatic NA	LOWE off imn LED: F SON CI fic trea cautio ontinue ollect sp isposa at hand ety pre ease co this S FORI S (0.2) Acute	ED: Rimediate Remove ENTEI atment busly we rinsi pillage I plant d. P10: cautio ontact EDS. WAT EXPO NOHSC PPM ES-STEL NF 1; Aqua	rese modely call year persent of the sees	d area puth. I conta son to octor/p ection ter for 1008+P3 - Stor P OU re beer sician IMITS II PEL NA 5	P273 Do NO aminate fresh a hysician 4 of th r sever 311 – I re locke T OF R n read or loca N AIR (mg OSHA ppm STEL NA 7 NA NA NA NA NA NA	TT ed iir n. iis all F ed	OTHER
CHEM WATI HYDD SELE FLUC PHOS	ER ROCHLORIC ACID ENIUM DIOXIDE	Avoid release induce vomitir clothing. Rinse and keep com P363 – Wash SDS or conta minutes. Rem exposes or coup. P501 - Dis P101 – If medi P103 – Read event of an expose who may seek SA. CC CAS No. 7732-18-5 7647-01-0 Skin Corr. 1B, ST 7446-08-4 Acute Tox. 3; Ski H318, H330, H32 16872-11-0 Acute Tox Oral 7664-38-2 Metal Corr. 1; Sk	to the environing. P303+P361 e skin with water fortable for breat contaminated in the spose of content label. P30 move contact le content label before us advice from the content label. PSE No. ZC0110000 MW4025000 TOT SE 3; H314, VS8575000 In Corr. 1B; Eye E 13, H400, H410 NA I 3; Skin Corr. 1A; TB6300000	ment. P301+P +P35 – IF ON er[or shower]. athing. P310 - I clothing before 5+P351+P338 nses, if prese POISON CEN ts/ container to eded have pro e. P202 – Do lical inquiry invie U.S. manufa ION & IN(EINECS No. 231-791-2 231-595-7 H335 231-194-7 Dam. 1; Acute To 240-898-3 3 Serious Eye Da 231-633-2	330+P33 I SKIN (or P304+P3. mmediate er reuse. F8 - IF IN E8 TER/doct of an approduct contained than the facturer, ar SREDI 60-100 1-5 30x. 2' STOT 1-15 31x. 1; H301	1 - IF 3 hair): 40 - IF 8 hair): 40 - IF	SWAL Take Take INHA POIS Specif Rinse do. Co aste di label all safe uct, ple v them INF STEL NA Aquatic NA	LOWE off imn LED: F SON CI fic trea cautio ontinue ollect sp isposa at hand ety pre ease co this S FORI S (0.2) Acute	ED: Rimediate Remove ENTEI atment busly we rinsi pillage I plant d. P10: cautio ontact EDS. WAT EXPO NOHSC PPM ES-STEL NF 1; Aqua	rese modely call year persent of the sees	d area puth. I conta son to octor/p ection ter for 1008+P3 - Stor P OU re beer sician IMITS II PEL NA 5	P273 Do NO aminate fresh a hysician 4 of th r sever 311 – I re locke T OF R n read or loca N AIR (mg OSHA ppm STEL NA 7 NA NA NA NA NA NA	TT ed iir n. iis all F ed	OTHER



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			4. FIRST AID MEASURES						
4.1	First Aid:	Ingestion: Eyes:	DO NOT INDUCE VOMITING. Contact SafetyCall +1 (855) 281-1742 or the nearest Poison Control Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.						
		<u>Skin</u> :	use, consult a physician or emergency room immediately. Remove contaminated clothing and wash affected areas with the skin reaction worsens, contact a physician immediately has been properly cleaned.	th soap and	water. If dis	scomfort per	sists a	nd/o	
		Inhalation:	Remove victim to fresh air at once. Under extreme condition Seek immediate medical attention.	s, if breathin	g stops, per	form artificia	l respir	atior	
4.2	Effects of Exposure:	Eyes: Skin:	Severe or permanent eye damage. Burns upon direct contact.						
		Ingestion: Inhalation:	Severe burns of mouth, throat, stomach. Severe irritation or burns in respiratory tract and mucous m	embranes. F	Possible lun	g damage.			
4.3	Symptoms of Overexposure:	Eyes: Skin: Ingestion:	Redness, burning, irritation, and swelling around eyes Redness, burning, itching, rash, blistering of skin. Nausea, vomiting, severe abdominal pain.						
4.4	Acute Health Effects:	May be harm	Inhalation: Coughing, wheezing, swelling of throat, irritation in mucous membranes, difficulty breathing. May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respira					rator	
4.5	Chronic Health Effects:	•	 harmful if swallowed. Causes burns. May be harmful if abso the nervous system, kidney and/or liver. 	ibea illiougi	ı SKIII.				
4.6	Target Organs:		Nervous System, Kidneys, Liver, Respiratory System, Spleen	Blood Form	ing Organs	Bones			
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing organs (eyes	dermatitis, other skin conditions, and disorders of the target s, skin, respiratory system, liver, blood-forming organs) or	HEALTH FLAMMA		5055		3	
		substance.	ney function may be more susceptible to the effects of this	PHYSICAL HAZARDS			2		
				EYES	TIVE EQU	LUNGS	1	Н	
4.8	Notes to Physician:	be considere	contains <u>Selenious Acid</u> and is potentially fatal if ingested eventially fatal if ingested eventially asymptomatic or minimally symptomatic patients as delated ailure may occur. 24/7 medical toxicology consultation is available.	yed toxic effe	ects includin	g pulmonary			
			5. FIREFIGHTING MEASURES						
5.1	Fire & Explosion Hazards:		ole. May react with metals to release hydrogen gas, which car insity fire; oxidizer.	form explos	sive mixtures	s with			
5.2	Extinguishing Methods:		nguishing media appropriate for surrounding materials.						
5.3	Firefighting Procedures:	approved or as for surro degradation and/or deriva fire is out.	fire, firefighters should wear appropriate protective equipme equivalent self-contained breathing apparatus (SCBA) and pounding materials. Hazardous decomposition products may produce oxides of carbon, phosphorous, selenium artives. Fire should be fought from a safe distance. Keep cont lose water spray to cool fire-exposed surfaces and to protect off from fire control or dilution from entering sewers, drains, way.	protective clo may be rel nd/or nitroge ainers cool u personal. F	othing. Fight leased. The en, hydrocar until well afte Fight fire up	fires ermal bons er the wind.	3 0	2	
			6. ACCIDENTAL RELEASE MEASUR	ES					
		- ·	ing any spill or leak, individuals involved in spill cleanup must			15	e Equir	mar	



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		7. HANDI	LING &	STOR	RAGE I	<u>NFORI</u>	<u>MATION</u>				
7.1	Work & Hygiene Practices:	of the reach of children. Do away from clothing/ combu	id breathing mists or spray. Avoid eye and skin contact. Wear protective equipment when handling product. Keep one reach of children. Do not eat, drink or smoke when handling this product. Wash thoroughly after handling. Keep/Sto by from clothing/ combustible materials. Do not expose to heat and flame. Use only in ventilated areas. Keep out of the children. Immediately clean-up and decontaminate any spills or residues.							ling. Keep/Store	
7.2	Storage & Handling:	Store in acid-resistant con	nd store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunl in acid-resistant containers. Keep containers covered when not in use. Avoid temperatures above 40 °C (120 away from incompatible substances (See Section 10). Protect containers from physical damage.								
7.3	Special Precautions:	Avoid breathing mists or s of the reach of children. D expose to heat and flame decontaminate any spills of	o not eat, d . Use only	rink or sr	noke wher	n handling	this product.	. Wash t	horough	ly after h	nandling. Do not
		8. EXPOSURE C	CONTRO	OLS 8	PERS	ONAL	PROTE	CTIO	N		
8.1	Exposure Limits:		ACG			NOHSC		<u> </u>	OSHA		OTHER
0.1	ppm (mg/m³)	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	OTHER
		HYDROCHLORIC ACID	2	5	5	7.5	5	5	7	50	
		SELENIOUS DIOXIDE	(0.2)	NA	(0.2)	NF	NF	(0.2)	NA.	(0.1)	Se Compounds
		PHOSPHORIC ACID	(1)	(3)	NF	NF	NF	NA	NA	1000	Co Compoundo
		PROPRIETARY	(1)	NA	NF	NF	NF	(1)	NA	1000	RESP
8.2	Ventilation & Engineering Controls:	Use local or general exha handling of this product. E station).	ust ventilati	on to effe	ectively rea	move and	prevent build	dup of va	pors or	mist ger	erated from the
8.3	Respiratory Protection:	In instances where vapors use only protection author CAS Standard Z94.4-93 Australia.	ized by 29 (CFR §191	10.134, ap	plicable Ú.	.S. State regu	ulátions,	or the Ca	anadian	8
8.4	Eye Protection:	Safety glasses with side s shield is also recommende or the European Standard	ed. If necess								
8.5	Hand Protection:	Wear protective, chemical- with your glove and/or prof If necessary, refer to U.S. member states.	tective cloth	ing manu	ıfacturer fo	or selection	n of appropria	ate comp	atible ma	aterials.	
8.6	Body Protection:	A chemical resistant aproproduct. If necessary, reference									
		9. PHYSI	ICAI &	CHEN	ЛСΔΙ	PROPI	FRTIFS				
9.1	Appearance:	l	IOAL G	<u> </u>							
9.2	Odor:	Clear, green liquid									
9.3	Odor Threshold:	Odorless									
9.4	pH:	NA c10									
9.4	Melting Point/Freezing Point:	< 1.0									
		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:	1.127 g/ml									
9.12	Solubility:	Complete (water)									
9.13	Partition Coefficient (log	NA									
9.14	P _{ow}): Autoignition Temperature:	NA									
	Decomposition Decomposition	NA									
9.15	- ' ' '										
	Temperature:										
9.15 9.16 9.17	Temperature: Viscosity: Other Information:	NA Evaporation Rate: < 1.0 (e	thul other -	1.0\							



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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision Date: 7/2/2021 SDS Revision: 1.0 10. STABILITY & REACTIVITY Stability: 10 1 Stable at normal temperatures. 10.2 Hazardous Decomposition Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenide. Thermal Products: decomposition may produce selenium, nitrogen, phosphoric and copper oxides, and hydrogen fluoride gas. 10.3 Hazardous Polymerization: Will not occur. 10.4 Conditions to Avoid: Excessive heat. Incompatible Substances: 10.5 Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustible organic materials, and most metals. 11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Routes of Entry: Ingestion: NO 11.2 **Toxicity Data** Solution: LD_{50} (oral, rat) = 1,030 mg/kg; Selenium Dioxide: LD₅₀ (oral, rat): 68.1 mg/kg, LC₅₀ (inh, rat, 4h): 0.51 mg/kg Remarks: Behavioral: Somnolence (general depressed activity). Behavioral: Convulsions or effect on seizure threshold. Phosphoric Acid: LD₅₀ (oral, rat) = 1,530 mg/kg; LD₅₀ (oral, rat) = 4,640 mg/kg Fluoboric Acid: LD₅₀ (oral, rat): 100 mg/kg 11.3 Acute Toxicity See Section 4.4 11.4 Chronic Toxicity See Section 4.5 11.5 Suspected Carcinogen: Reproductive Toxicity 11.6 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. 11.7 Irritancy of Product: See Section 4.2 Biological Exposure Indices: NF Physician 11.9 Treat symptomatically. Recommendations 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: There are no specific data available for this product. 12.2 Effects on Plants & Animals: There are no specific data available for this product. 12.3 Effects on Aquatic Life: Very toxic to aquatic life with long lasting effects. Phosphoric Acid: EC₅₀ (Daphnia magna, 12h) = 4.6 mg/L. Hydrochloric Acid: Will dissolve some of the soil materials (especially those with carbonate bases) and the acid will neutralize to some degree. 13. DISPOSAL CONSIDERATIONS 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. U.S. EPA Hazardous Waste - Characteristic - Corrosive (D002), Characteristic - Toxic (D010) Special Considerations: 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 information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. 49 CFR (GND): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, FLUBORIC ACID), 8, II, (LTD QTY, IP VOL ≤ 1.0 L) 14.2 IATA (AIR): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, FLUBORIC ACID), 8, II, (LTD QTY, IP VOL \leq 0.1 L) IMDG (OCN): 14.3 UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, FLUBORIC ACID), 8, II, (LTD QTY, IP VOL ≤ 1.0 L) 14 4 TDGR (Canadian GND): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, FLUBORIC ACID), 8, II, MARINE POLLUTANT, (LTD QTY, IP VOL ≤ 1.0 L) ADR/RID (EU): 14.5 UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, FLUBORIC ACID), 8, II, (LTD QTY, IP VOL \leq 1.0 L) SCT (MEXICO): UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ÁCIDO CLORHÍDRICO, ÁCIDO 14.6 FLUBÓRICO), 8, II, (CANT. LTDA., IP VOL ≤ 1.0 L) ADGR (AUS): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, FLUBORIC ACID), 8, II, (LTD QTY, IP VOL \leq 1.0 L)



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		15. REGULATORY INFORMATION
15.1	SARA Reporting Requirements:	This product contains <u>Selenium Dioxide (Se compounds)</u> , <u>Cupric Sulfate</u> and <u>Phosphoric Acid</u> , substances subject to SARA Title III, Section 313 reporting requirements.
15.2	SARA TPQ:	Hydrochloric Acid: 2,270 kg (5,000 lbs).
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.
15.4	CERCLA Reportable Quantity:	Selenium dioxide: 10 lbs (4.54 kg); Cupric Sulfate: 10 lbs (4.54 kg); Phosphoric Acid: 5,000 lbs (2,270 kg), Hydrochloric Acid: 2,270 kg (5,000 lbs).
15.5	Other Federal Requirements:	NA NA
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS Class D1, E (Materials Causing Immediate and Serious Toxic Effects, Corrosive).
15.7	State Regulatory Information: Other Requirements:	Selenium dioxide is found on the following state criteria lists: New Jersey Right-to-Know List (NJ), Minnesota Hazardous Substances List (MN) (as Se compounds), Massachusetts Hazardous Substances List (MA), Pennsylvania Right-to-Know List (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). 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
		16. OTHER INFORMATION
16.1	Other Information:	DANGER! TOXIC IF SWALLOWED OR INHALED. CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY CAUSE RESPIRATORY IRRITATION. VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. Read label before use. Do not handle until all safety precautions have been read and understood. If medical advice is needed have product container or label at hand. Keep/Store away from clothing/ combustible materials. Do not breathe dust/mist/fume/gas/vapor/spray. Wash thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately call contaminated clothing. Rinse skin with water [or shower]. IF INHALED: Remover person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse. Specific treatment see section 4 of this SDS or container label. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposes or concerned: Call a POISON CENTER/doctor. Collect spillage. Store locked up. KEEP OUT OF REACH OF CHILDREN.
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Birchwood Technologies' knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.
16.4	Prepared for:	Birchwood Technologies 7900 Fuller Road 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 Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com



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

FIRST AID MEASURES:

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

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

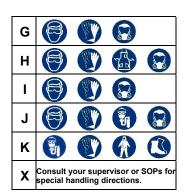
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

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





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

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

HAZARD RATINGS:

0	Minimal Hazard	FLAMMABILITY
1	Slight Hazard	. =
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/ \ \ \ /
W	Use No Water	HEALTH 💉
ОХ	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals			
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal			
ppm Concentration expressed in parts of material per million p				
TD _{lo}	TD _{Io} Lowest dose to cause a symptom			
TCLo	Lowest concentration to cause a symptom			
TD _{Io} , LD _{Io} , & LD _o or	LDo 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	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	(A)	(2)	(4)	\odot	®		Ř
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			\Leftrightarrow		
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment