

Page 1 of 6 **PBP-003**

		I, NOHSC, WHMI					SDS F							4/1/2015
		1	. PRODUC	T & COME	PANY	IDFN	VTIF	ICA	TION	I				
.1	Product Name:		BLACK [®] LIQ		71111	<u></u>	••••							
2	Chemical Name:	Acid Mixture		.010										
3	Synonyms:													
4	Trade Names:	Tool Black®	10, 45112, 45117											
5	Product Use:			10: 1										
_			Blackening Iron ar											
6	Distributor's Name:		rand Products, Inc.											
7	Distributor's Address:		s Street, Downers											
8	Emergency Phone:	ChemTre	c +1 (800) 424	I-9300 / +1 (703) 52	7-388	87 or	Pois	on Co	ontro	I Ce	nter	+1 (8	55) 281-174
9	Business Phone / Fax:	+1 (630) 969	9-7200 / +1 (630)	969-0310										
			2. HA	ZARDS II	DENTI	FIC/	ATIO	N						
1	Hazard Identification:	This produc	at is classified as						s good	ds acc	ording	g to th	ne	
		classification	n criteria of [NOHS	C: 1088 (2004))] and AD	G Code	e (Aus	tralia).						
			TOXIC IF SWAL											dL
			SE DAMAGE TO		ROUGH	PROLO	DNGE	D OR	REPE	ATED	EXP(OSUR	E.	
			ISIFY FIRE; OXID											
			n: Acute Toxicity-I											
			tements (H): H30											Pa
			373 – May cause								sure.	H272	-	
			y fire; oxidizer. H											
			ry Statements (P):											X
			lease to the envi											ΔV
			ace protection. P3											*
			ician. P305+P351											34
			ntact lenses, if pre			ontinu	e rinsii	ng. P5	01 – L	osogai	e of c	onten	:S/	
		container to	an approved wast	e disposai piari	IL.									
		2 (COMPOSITI	ON 9 INC	DEDI	-NIT	INIT		1 A T I	ON.				
		3. (COMPOSITI	ON & ING	IKEDII		IINL	URIV	<u>IA I I</u>					
									FYPOS	URFU	MITS IN	AIR (m	a/m³\	
						ACC	GIH		EXPOS NOHSC	URE LI	MITS IN	AIR (m OSHA	g/m³)	
										URE LI	MITS IN	OSHA	g/m³)	-
						ACC pp		ES-	NOHSC	URE LII	MITS IN		g/m³)	_
IEMI	CAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	pp TLV	m STEL	ES- TWA	ppm ES- STEL	ES- PEAK	TLV	OSHA ppm STEL	IDLH	OTHER
	• •	CAS No. 7732-18-5		EINECS No. 231-791-2	% 60-100	pp	m	ES-	ppm ES-	ES-		OSHA ppm	<u> </u>	OTHER
	• •	7732-18-5	ZC0110000	231-791-2	60-100	TLV NE	STEL NE	ES- TWA NF	ppm ES- STEL NF	ES- PEAK NF	TLV NE	ppm STEL NE	IDLH NE	OTHER
ATE	R	7732-18-5 7783-00-8	ZC0110000 VS7175000	231-791-2	60-100 1-5	TLV NE	STEL NE	ES- TWA NF	ppm ES- STEL NF	ES- PEAK NF	TLV NE	ppm STEL NE	IDLH NE	
ATE	• •	7732-18-5 7783-00-8 Acute Tox	ZC0110000 VS7175000 icity-Inh 3; Acute Tox	231-791-2	60-100 1-5	TLV NE	STEL NE	ES- TWA NF	ppm ES- STEL NF	ES- PEAK NF	TLV NE	ppm STEL NE	IDLH NE	
ATE	R NIOUS ACID	7732-18-5 7783-00-8 Acute Tox	ZC0110000 VS7175000 icity-Inh 3; Acute Tox 1331, H400, H410	231-791-2	60-100 1-5	TLV NE	STEL NE	ES- TWA NF	ppm ES- STEL NF	ES- PEAK NF	TLV NE	ppm STEL NE	IDLH NE	
ATE LEN	R	7732-18-5 7783-00-8 Acute Tox 1; H301, H	ZC0110000 VS7175000 icity-Inh 3; Acute Tox 1331, H400, H410	231-791-2 231-974-7 icity-Oral 3; STO	60-100 1-5 T-Repeate	TLV NE (0.2)	STEL NE NA ; Acute	ES- TWA NF (0.2)	POHSC ppm ES- STEL NF NF Toxicity	ES- PEAK NF NF y 1; Ch	TLV NE (0.2) ronic A	STEL NE NA	IDLH NE NA Toxicity	
LEN OPP	R NIOUS ACID ER (II) NITRATE, DRATE	7732-18-5 7783-00-8 Acute Tox 1; H301, H	ZC0110000 VS7175000 icity-Inh 3; Acute Tox 1331, H400, H410 3 GI7875000 rosion 1; Skin Corrosi	231-791-2 231-974-7 icity-Oral 3; STO	60-100 1-5 T-Repeate	TLV NE (0.2)	STEL NE NA ; Acute	ES- TWA NF (0.2)	POHSC ppm ES- STEL NF NF Toxicity	ES- PEAK NF NF y 1; Ch	TLV NE (0.2) ronic A	STEL NE NA	IDLH NE NA Toxicity	
ELEN OPP	R NIOUS ACID ER (II) NITRATE,	7732-18-5 7783-00-8 Acute Tox 1; H301, H 10031-43- Metal Corr 7697-37-2	ZC0110000 VS7175000 icity-Inh 3; Acute Tox 1331, H400, H410 3 GI7875000 rosion 1; Skin Corrosi	231-791-2 231-974-7 icity-Oral 3; STO 221-838-5 ion1B; H290, H31 231-714-2	1-5 T-Repeate 1-5 14 1-5	TLV NE (0.2) d Exp 2	STEL NE NA ; Acute	ES- TWA NF (0.2) Aquatic	NOHSC ppm ES- STEL NF NF NF NF NF NF	ES- PEAK NF NF NF y 1; Ch	TLV NE (0.2) ronic A	osha ppm stel NE NA quatic	IDLH NE NA Toxicity	
ELEN OPP NHY	R NIOUS ACID ER (II) NITRATE, 'DRATE C ACID	7732-18-5 7783-00-8 Acute Tox 1; H301, H 10031-43- Metal Corr 7697-37-2	ZC0110000 VS7175000 icity-Inh 3; Acute Tox i331, H400, H410 3 GI7875000 rosion 1; Skin Corrosi QU5775000 Liquid 3; Skin Corrosi	231-791-2 231-974-7 icity-Oral 3; STO 221-838-5 ion1B; H290, H31 231-714-2	1-5 T-Repeate 1-5 14 1-5	TLV NE (0.2) d Exp 2	STEL NE NA ; Acute	ES- TWA NF (0.2) Aquatic	NOHSC ppm ES- STEL NF NF NF NF NF NF	ES- PEAK NF NF NF y 1; Ch	TLV NE (0.2) ronic A	osha ppm stel NE NA quatic	IDLH NE NA Toxicity	
ELEN OPP NHY	R NIOUS ACID ER (II) NITRATE, DRATE	7732-18-5 7783-00-8 Acute Tox 1; H301, H 10031-43- Metal Corr 7697-37-2 Oxidizing I 7647-01-0	VS7175000 VS7175000 icity-Inh 3; Acute Tox 4331, H400, H410 3 GI7875000 GI7875000 QU5775000 Cupid 3; Skin Corrosi MW4025000	231-791-2 231-974-7 icity-Oral 3; STO' 221-838-5 ion1B; H290, H31 231-714-2 ion 1A; H272, H3 231-595-7	1-5 T-Repeate 1-5 14 1-5 14 1-5	TLV NE (0.2) d Exp 2 (1) 2	STEL NE NA; Acute NA	ES- TWA NF (0.2) Aquation NF	NOHSC ppm ES- STEL NF NF NF NF NF	ES- PEAK NF NF y 1; Ch	TLV NE (0.2) ronic A NA	NA Aquatic	IDLH NE NA Toxicity NA	
LEN DPP IHY TRIG	R NIOUS ACID ER (II) NITRATE, 'DRATE C ACID OCHLORIC ACID	7732-18-5 7783-00-8 Acute Tox 1; H301, H 10031-43- Metal Corr 7697-37-2 Oxidizing I 7647-01-0	VS7175000 VS7175000 icity-Inh 3; Acute Tox 4331, H400, H410 3 GI7875000 rosion 1; Skin Corrosi QU5775000 Liquid 3; Skin Corrosi MW4025000 osion 1B; Single Targ	231-791-2 231-974-7 icity-Oral 3; STO' 221-838-5 ion1B; H290, H31 231-714-2 ion 1A; H272, H3 231-595-7	1-5 T-Repeate 1-5 14 1-5 14 1-5	TLV NE (0.2) d Exp 2 (1) 2	STEL NE NA; Acute NA	ES- TWA NF (0.2) Aquation NF	NOHSC ppm ES- STEL NF NF NF NF NF	ES- PEAK NF NF y 1; Ch	TLV NE (0.2) ronic A NA	NA Aquatic	IDLH NE NA Toxicity NA	
LEN DPP IHY TRIC	R NIOUS ACID ER (II) NITRATE, 'DRATE C ACID	7732-18-5 7783-00-8 Acute Tox 1; H301, H 10031-43- Metal Corr 7697-37-2 Oxidizing I 7647-01-0 Skin Corrc 7664-38-2	VS7175000 VS7175000 icity-Inh 3; Acute Tox 4331, H400, H410 3 GI7875000 rosion 1; Skin Corrosi QU5775000 Liquid 3; Skin Corrosi MW4025000 osion 1B; Single Targ	231-791-2 231-974-7 icity-Oral 3; STO' 221-838-5 ion1B; H290, H31 231-714-2 ion 1A; H272, H3 231-595-7 et Organ Toxicity 231-633-2	1-5 T-Repeate 1-5 14 1-5 14 1-5 -Single Ex	TLV NE (0.2) (1) (2) 2 (2) (2) (2) (3) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	STEL NE NA; Acute NA 4 NA NA 3; H314	ES- TWA NF (0.2) Aquatic NF 2 NF , H335	NOHSC ppm ES- STEL NF NF TOxicity NF NF NF	ES- PEAK NF NF V 1; Ch NF	TLV NE (0.2) ronic A NA 2	PPM STEL NE NA Aquatic NA NA NA	IDLH NE NA Toxicity NA 25	
LEN PPP IHY TRIC	R NIOUS ACID ER (II) NITRATE, 'DRATE C ACID OCHLORIC ACID	7732-18-5 7783-00-8 Acute Tox 1; H301, H 10031-43- Metal Corr 7697-37-2 Oxidizing I 7647-01-0 Skin Corrc 7664-38-2	VS7175000 VS7175000 icity-Inh 3; Acute Tox 4331, H400, H410 3 GI7875000 cosion 1; Skin Corrosi QU5775000 Liquid 3; Skin Corrosi MW4025000 osion 1B; Single Targ TB6300000 rosion 1; Skin Corrosi	231-791-2 231-974-7 icity-Oral 3; STO' 221-838-5 ion1B; H290, H31 231-714-2 ion 1A; H272, H3 231-595-7 et Organ Toxicity 231-633-2 ion1B; H290, H31	1-5 T-Repeate 1-5 14 1-5 14 1-5 -Single Ex	PP TLV NE (0.2) d Exp 2: (1) 2 2 coosure 3 (1)	NA NA NA NA NA (3)	ES- TWA NF (0.2) Aquatic NF 2 NF , H335	NOHSC ppm ES- STEL NF NF TOxicity NF NF NF	ES- PEAK NF NF V 1; Ch NF	TLV NE (0.2) ronic A NA 2	PPM STEL NE NA Aquatic NA NA NA	IDLH NE NA Toxicity NA 25	
LEN PPP IHY TRIG DR	R NIOUS ACID ER (II) NITRATE, DRATE C ACID OCHLORIC ACID PHORIC ACID	7732-18-5 7783-00-8 Acute Tox 1; H301, F 10031-43- Metal Corr 7697-37-2 Oxidizing I 7647-01-0 Skin Corro 7664-38-2 Metal Corr	VS7175000 VS7175000 icity-Inh 3; Acute Tox 4331, H400, H410 3 Gl7875000 rosion 1; Skin Corrosi QU5775000 Liquid 3; Skin Corrosi MW4025000 vsion 1B; Single Targ TB6300000 rosion 1; Skin Corrosi	231-791-2 231-974-7 icity-Oral 3; STO' 221-838-5 ion1B; H290, H31 231-714-2 ion 1A; H272, H3 231-595-7 et Organ Toxicity 231-633-2 ion1B; H290, H31	1-5 T-Repeate 1-5 4 1-5 14 1-5 -Single Ex 1-5 14	PP TLV NE (0.2) (1) 2 (1) 2 cossure 3 (1)	NA ; Acute NA NA NA NA (3)	ES- TWA NF (0.2) Aquatic NF 2 NF , H335 NF	NOHSC ppm ES- STEL NF NF TOxicity NF NF NF	ES-PEAK NF NF Y 1; Ch NF NF NF NF NF	TLV NE (0.2) ronic A NA 2 5	osha ppm stel NE NA quatic NA NA NA	IDLH NE NA Toxicity NA 25 50	
LEN PPP IHY TRIC	R NIOUS ACID ER (II) NITRATE, 'DRATE C ACID OCHLORIC ACID	7732-18-5 7783-00-8 Acute Tox 1; H301, H 10031-43- Metal Corr 7697-37-2 Oxidizing I 7647-01-0 Skin Corrc 7664-38-2	VS7175000 VS7175000 icity-Inh 3; Acute Tox 4331, H400, H410 3	231-791-2 231-974-7 icity-Oral 3; STO 221-838-5 ion1B; H290, H31 231-714-2 ion 1A; H272, H3 231-595-7 et Organ Toxicity 231-633-2 ion1B; H290, H31 FIRST AIE EVOMITING.	1-5 T-Repeate 1-5 14 1-5 14 1-5 -Single Ex 1-5 14	PP TLV NE (0.2) (1) 2 (1) 2 coosure 3 (1) SSUF	NA ; Acute NA NA NA NA NA (3) RES	ES- TWA NF (0.2) Aquatic NF 2 NF , H335 NF	NOHSC ppm ES- STEL NF NF Toxicity NF NF NF	ES-PEAK NF NF Y 1; Ch NF	TLV NE (0.2) NA 2 5 NA	NA NA NA NA NA NA NA NA	IDLH NE NA Toxicity NA 25 50 1000	on Control Cer
LEN PPP IHY CRIG DR	R NIOUS ACID ER (II) NITRATE, DRATE C ACID OCHLORIC ACID PHORIC ACID	7732-18-5 7783-00-8 Acute Tox 1; H301, F 10031-43- Metal Corr 7697-37-2 Oxidizing I 7647-01-0 Skin Corro 7664-38-2 Metal Corr	VS7175000 VS7175000 VS7175000 icity-Inh 3; Acute Tox 4331, H400, H410 3	231-791-2 231-974-7 icity-Oral 3; STO 221-838-5 ion1B; H290, H31 231-714-2 ion 1A; H272, H3 231-595-7 et Organ Toxicity 231-633-2 ion1B; H290, H31 FIRST AIE E VOMITING. ncy telephone r	1-5 T-Repeate 1-5 14 1-5 14 1-5 -Single Ex 1-5 14 Contact	PP TLV NE (0.2) (1) 2 (1) 2 coosure 3 (1) SSUF Safety or assis	NA N	ES- TWA NF (0.2) Aquatic NF 2 NF , H335 NF	NOHSC ppm ES- STEL NF	ES- PEAK NF NF y 1; Ch NF NF NF NF	TLV NE (0.2) ronic A NA 2 5 NA	NA NA NA NA NA NA NA NA	IDLH NE NA Toxicity NA 25 50 1000	on Control Ceredical attention
PP IHY DR	R NIOUS ACID ER (II) NITRATE, DRATE C ACID OCHLORIC ACID PHORIC ACID	7732-18-5 7783-00-8 Acute Tox 1; H301, F 10031-43- Metal Corr 7697-37-2 Oxidizing I 7647-01-0 Skin Corro 7664-38-2 Metal Corr	VS7175000 VS7175000 VS7175000 icity-Inh 3; Acute Tox 4331, H400, H410 3 GI7875000 cosion 1; Skin Corrosi QU5775000 Liquid 3; Skin Corrosi MW4025000 osion 1B; Single Targ TB6300000 rosion 1; Skin Corrosi 4. DO NOT INDUC or local emerger vomiting occurs	231-791-2 231-974-7 icity-Oral 3; STO 221-838-5 ion1B; H290, H31 231-714-2 ion 1A; H272, H3 231-595-7 et Organ Toxicity 231-633-2 ion1B; H290, H31 FIRST AIE E VOMITING. Incy telephone r spontaneously	1-5 T-Repeate 1-5 14 1-5 14 1-5 -Single Ex 1-5 14 Contact	PP TLV NE (0.2) (1) 2 (1) 2 coosure 3 (1) Safety or assistim's h	NA N	RS-TWA NF (0.2) Aquatic NF 2 NF , H335 NF 1 (855) and inswered	NOHSC ppm ES- STEL NF NF NF NF NF NF NF O 281-1 structio (forwar	ES-PEAK NF NF NF NF NF NF THE STATE OF THE S	TLV NE (0.2) ronic A NA 2 NA r the r eek in reduce	NA	IDLH NE NA Toxicity NA 25 50 1000 t Poiscate mesk of a	on Control Ceredical attention aspiration.
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 4/1/2015 4. FIRST AID MEASURES - cont'd 4.3 Symptoms of Overexposure: Redness, burning, irritation, and swelling around eyes Eyes: Redness, burning, itching, rash, blistering of skin. Skin: Nausea, vomiting, severe abdominal pain. Ingestion: Inhalation: Coughing, wheezing, swelling of throat, irritation in mucous membranes, difficulty breathing. 4.4 Acute Health Effects: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if swallowed. Causes burns. May be harmful if absorbed through skin. 4.5 Chronic Health Effects: May damage the nervous system, kidney and/or liver. 4.6 Target Organs: Eyes, Skin, Nervous System, Kidneys, Liver, Respiratory System. Medical Conditions 47 Pre-existing dermatitis, other skin conditions, and disorders of the **HEALTH** 3 Aggravated by Exposure: target organs (eyes, skin, and respiratory system) or impaired kidney **FLAMMABILITY** 0 function may be more susceptible to the effects of this substance. PHYSICAL HAZARDS 2 PROTECTIVE EQUIPMENT Н **EYES** SKIN LUNGS 5. FIREFIGHTING MEASURES 5.1 Fire & Explosion Hazards: Non-flammable. May react with metals to release hydrogen gas, which can form explosive mixtures with air. May intensity fire; oxidizer. 5.2 Extinguishing Methods: Use fire-extinguishing media appropriate for surrounding materials. 5.3 Firefighting Procedures: As with any fire, firefighters should wear appropriate protective equipment including a MSHA/NIOSH approved or equivalent self-contained breathing apparatus (SCBA) and protective clothing. Fight fires as for surrounding materials. Hazardous decomposition products may be released. Thermal degradation may produce oxides of carbon, phosphorous, selenium and/or nitrogen, hydrocarbons and/or derivatives. Fire should be fought from a safe distance. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURES 6 1 Spills Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment (PPE). Use safety glasses or safety goggles and face shield, use gloves and other protective clothing (e.g., apron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible, inert material such as vermiculite or sand to soak up the product and place into a container for later disposal. Large Spills: Keep incompatible materials (e.g., organics such as oil) away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. Recover as much free liquid as possible and collect in acid-resistant container. Use absorbent to pick up residue. Avoid discharging liquid directly into a sewer or surface waters. 7. HANDLING & STORAGE INFORMATION Avoid breathing mists or spray. Avoid eye and skin contact. Wear protective equipment when handling product. Keep out 7.1 Work & Hygiene Practices: of the reach of children. Do not eat, drink or smoke when handling this product. Wash thoroughly after handling. Do not expose to heat and flame. Use only in ventilated areas. Keep out of the reach of children. Immediately clean-up and decontaminate any spills or residues. 7.2 Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Store in acid-resistant containers. Keep containers covered when not in use. Avoid temperatures above 40 °C (120 °F). Keep away from incompatible substances (see Section 10). Protect containers from physical damage 7.3 Special Precautions: Empty containers may retain hazardous product residues. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION Exposure Limits: ACGIH NOHSC OSHA OTHER ppm (mg/m³) CHEMICAL NAME(S) TLV STEL **ES-TWA** ES-STEL **ES-PEAK** PEL STEL IDLH SELENIOUS ACID NF (0.2)NA (0.2)NF (0.2)NA NA COPPER (II) NITRATE, RIHYDRATE NF NF (1) NA NF NA NA NA NITRIC ACID NF NF 2 2 4 2 NA 25 HYDROCHLORIC ACID 2 NA NF NF 5 5 NA 50 PHOSPHORIC ACID (1) (3) NF NF NF NA NA 1000 Ventilation & Engineering 8.2 Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station).



Environmental Stability

Effects on Plants & Animals:

No data available

12.1

12.2

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SAFETY DATA SHEET **PBP-003** Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 4/1/2015 8. EXPOSURE CONTROLS & PERSONAL PROTECTION - cont'd 8.3 Respiratory Protection: In instances where vapors or sprays of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia. 8.4 Eye Protection: Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended. 8.5 Hand Protection: Wear protective, chemical-resistant gloves (e.g., neoprene) when using or handling this product. 8.6 Body Protection: A chemical resistant apron and/or protective clothing are recommended when handling or using this 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Appearance: Clear liquid Odor: 9.2 Odorless 9.3 Odor Threshold: 0.29 to 0.98 ppm (Nitric Acid) 9.4 pH: Melting Point/Freezing Point: 9.5 NA Initial Boiling Point/Boiling 9.6 > 100 °C (> 212 °F) Range: 9.7 Flashpoint: NA 9.8 Upper/Lower Flammability NA Vapor Pressure: 9.9 NA 9.10 Vapor Density: < 1.0 (air = 1.0)Relative Density: 9.11 1.055 Solubility: 9.12 Complete (water) 9.13 Partition Coefficient (log NA 9.14 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. STABILITY & REACTIVITY 10.1 Stability: Stable at normal temperatures Hazardous Decomposition 10.2 Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenide. Thermal decomposition may produce selenium, nitrogen, phosphoric and copper oxides. 10.3 Hazardous Polymerization: Will not occur. 10.4 Conditions to Avoid Excessive heat, shock, friction. 10.5 Incompatible Substances: Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustible organic materials, most metals 11. TOXICOLOGICAL INFORMATION Inhalation: YES Routes of Entry: Absorption: YES Ingestion: YES 11.1 11 2 Toxicity Data: Phosphoric Acid: LD₅₀ (oral, rat) = 1,530 mg/kg; LD₅₀ (oral, rat) = 4,640 mg/kg; Hydrochloric Acid: LD₅₀ (oral, rat) = 900 mg/kg; Copper Nitrate Trihydrate: LD₅₀ (oral, rat) = 794 mg/kg 11.3 Acute Toxicity See Section 2.4 11.4 Chronic Toxicity: See Section 2.5 11.5 Suspected Carcinogen: NA 11.6 Reproductive Toxicity: This product is not reported to cause reproductive toxicity in humans Mutagenicity: This product is not reported to produce mutagenic effects in humans Embryotoxicity: This product is not reported to produce embryotoxic effects in humans. Teratogenicity: 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 2.3 118 Biological Exposure Indices: NE 11.9 Physician Treat symptomatically. Recommendations 12. ECOLOGICAL INFORMATION

Hydrochloric Acid: LC₅₀ (gambusia affinis-mosquito fish, 96h) - 282 mg/L



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PBP-003 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 4/1/2015 12. ECOLOGICAL INFORMATION – cont'd 12.3 Effects on Aquatic Life: Very toxic to aquatic life with long lasting effects. Phosphoric Acid: EC₅₀ (Daphnia magna, 12h) = 4.6 mg/L 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage and disposal of hazardous waste must be provided by a licensed facility or waste hauler. 13.2 Special Considerations: U.S. EPA Hazardous Waste - Characteristic - Corrosive (D002), Characteristic - Toxic (D010) 14. TRANSPORTATION INFORMATION 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. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, (LTD QTY, IP VOL \leq 5.0 L) IATA (AIR): 14 2 UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, (LTD QTY, IP VOL ≤ 0.5 L) 14.3 IMDG (OCN): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, (LTD QTY, IP VOL \leq 5.0 L) 14.4 TDGR (Canadian GND): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, (LTD QTY, IP VOL ≤ 5.0 L) 14.5 ADR/RID (EU): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, (LTD QTY, IP VOL \leq 5.0 L) UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO 14.6 SCT (MEXICO): FOSFORICO), 8, II, (CANTIDAD LIMITADA, IP VOL ≤ 5.0 L) ADGR (AUS): 14.7 UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, (LTD QTY, IP VOL \leq 5.0 L) 15. REGULATORY INFORMATION This product contains Nitric Acid, Hydrochloric Acid, Selenious Acid, Cupric Nitrate, and Phosphoric Acid, substances 15.1 SARA Reporting Requirements: subject to SARA Title III, section 313 reporting requirements. 15.2 SARA Threshold Planning 302 TPQ (Nitric Acid): 1,000 lbs (454 kg) Quantity: TSCA Inventory Status: 15.3 The components of this product are listed on the TSCA Inventory. CERCLA Reportable 15.4 Selenious Acid: 10 lbs (4.54 kg); Nitric Acid: 1,000 lbs (454 kg); Phosphoric Acid: 5,000 lbs (2,270 kg); Hydrochloric Acid: Quantity (RQ) 5,000 lbs (2,270 kg); Cupric Nitrate: 100 lbs (45.4 kg) 15.5 Other Federal Requirements: 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS Class E (Corrosive Material). WHMIS Class D1 (Materials Causing Immediate and Serious Toxic Effects). 15.7 State Regulatory Selenious Acid is found on the following state criteria lists: Florida Toxic Substances List (FL), Massachusetts Hazardous Information: Substances List (MA), Minnesota Hazardous Substances List (MN), Pennsylvania Right-to-Know List (PA), and Wisconsin Hazardous Substances List (WI) Nitric Acid is found on the following state criteria lists: FL, MA, MN, New Jersey Right-to-Know List (NJ), PA, and Washington Permissible Exposures List (WA). Hydrochloric Acid is found on the following state criteria lists: FL, MA, MN, NJ, PA, WA Phosphoric Acid is found on the following state criteria lists: FL, MA, MN, 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: The primary components of this product are listed in Annex I of EU Directive 67/548/EEC. Selenious Acid, Hydrochloric Acid: Corrosive (C), Toxic (T). Risk Phrases (R): R35 - Causes severe burns. Safety Phrases (S): S1/2-7/9-24/25-26-28-36/37/39-46 - Keep locked up and out of the reach of children. Keep container tightly closed and in a well-ventilated place. Avoid contact with

skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. After contact with skin, wash with plenty of soap and warm water. If swallowed, seek medical advice immediately and show

this container or label.



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

SDS Revision: 1.1

SDS Revision Date: 4/1/2015

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		16. OTHER INFO	DRMATION
16.1	Other Information:		swallowed or harmful if inhaled. Causes severe burns to eyes and skin. s product may ignite more easily and burn more intensely. Avoid shock,
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for app Products Inc.'s knowledge, the information contains suitability or completeness is not guaranteed and The information contained herein relates only to the	SHA's Hazard Communication Standard, 29 CFR §1910.1200. Other blicability to this product. To the best of ShipMate's & Precision Brand ned herein is reliable and accurate as of this date; however, accuracy, if no warranties of any type, either expressed or implied, are provided, as specific product(s). If this product(s) is combined with other materials, that a may be changed from time to time. Be sure to consult the latest
16.4	Prepared for:	Precision Brand Products, Inc. 2250 Curtiss Street Downers Grove, IL 60515 USA Tel: +1 (630) 969-7200 Fax: +1 (630) 969-0310 http://www.precisionbrand.com	PRECISION BRAND.
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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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision Date: 4/1/2015

DEFINITION OF TERMS

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

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number

EXPOSURE LIMITS IN AIR:

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

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

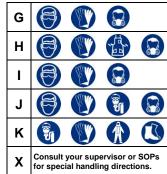
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С		T.	
D		The state of the s	
Ε			
F			





Safety Glasses Splash Goggles



雷 Synthetic Apron



Dust & Vapor Half-Mask Respirator



Face Shield & Gloves **Protective Eyewear**





Dust Respirator i

Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

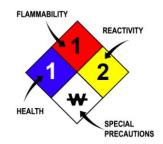
ML	Maximum Limit
NA	Not Available
ND	Not Determined
NE	Not Established
NF	Not Found
NR	No Results
SCBA	Self-Contained Breathing Apparatus

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:					
Autoignition Temperature					
LEL Lower Explosive Limit - lowest percent of vapor in air, by voluexplode 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:

Minimal Hazard
Slight Hazard
Moderate Hazard
Severe Hazard
Extreme Hazard
Acidic
Alkaline
Corrosive
Use No Water
Oxidizer
Radioactive



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
	S
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{io}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{io} , LD _{io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, 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
TL _m	Median threshold limit
log K _{ow} or log K _{oc}	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System		
DOT	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	EU European Union (European Union Directive 67/548/EEC)		
WGK	Wassergefährdungsklassen (German Water Hazard Class)		

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

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

EC (67/548/EEC) INFORMATION:

		M	¥		® X	X	X
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\Diamond			\		\(\frac{\psi}{2}\)
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment