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

SDS Revision: 1.0

SDS Revision Date: 6/24/2014

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4.4	Draduct Name		PRODUC <sup>®</sup>				NIII	·ICA	110	N				
1.1	Product Name:	PERMA BLUE <sup>®</sup> LIQUID GUN BLUE												
1.2	Chemical Name:	Acid Mixture												
1.3	Synonyms:	13125, 13132,												
1.4	Trade Names:		Perma Blue <sup>®</sup> Liquid Gun Blue											
1.5	Product Use:	Metal Finishing	letal Finishing											
1.6	Distributor's Name:	Birchwood Cas	irchwood Casey.											
1.7	Distributor's Address:	7887 Fuller Ro	ad, Suite #100,	Eden Prairie,	MN 55344	4 USA								
1.8	Emergency Phone:	ChemTrec +	1 (800) 424-9	300 / +1 (703	5) 527-38	<b>87</b> or	Pois	on Co	ntrol	Cente	er +1	(866)	291-7	152
1.9	Business Phone / Fax:	+1 (952) 388-6	717											
				ZARDS I										
2.1	classification criteria of [NOHSC: 1088 (2004)] and ADG Code (Australia).  DANGER! MAY INTENSIFY FIRE; OXIDIZER. TOXIC IF SWALLOWED. TOXIC IF INHALED.  MAY CAUSE SEVERE SKIN BURNS OR EYE DAMAGE. VERY TOXIC TO AQUATIC LIFE WITH													
		Hazard Staten Causes severe life with long la Precautionary other ignition materials. P26	LONG LASTING EFFECTS.  Hazard Statements (H): H272 – May intensify fire; oxidizer. H301 – Toxic if swallowed. H314 - Causes severe skin burns and eye damage. H331 – Toxic if inhaled H410 – Very toxic to aquatic ife with long lasting effects.  Precautionary Statements (P): P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 Keep away from clothing and other combustible materials. P261 – Avoid breathing fume/vapors. P264 – Wash with soap and water thoroughly after											
		in a well-ventiliprotective cloth a POISON CE section 4 First to fresh air a 7152/doctor. I materials to es	handling. P270 – Do not eat, drink, or smoke when using this product. P271 – Use only outdoors or in a well-ventilated area. P273 – Avoid release to the environment. P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P321 – Specific treatments see this container label and section 4 First Aid of this SDS. P330 – Rinse mouth. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P311 – Call a Poison Center +1-866-291-7152/doctor. P370+P378 – In case of fire: Use fire-extinguishing media appropriate for surrounding materials to extinguish. P391 – Collect spillage. P403+P233 – Store in a well-ventilated place. Keep container tightly closed. P405 – Store locked up. P501 - Dispose of contents/ container to an											
2.2	Effects of Exposure:	Eyes:	Severe or pern		nage.									
		Skin:	Burns upon dir		•									
		Ingestion:	Severe burns of	of mouth, throa	t, stomacl	h.								
		Inhalation:	Severe irritatio	n or burns in re	espiratory	tract a	ind mu	cous r	nembr	anes.	Possik	ole lun	g dama	age.
2.3	Symptoms of Overexposure:	Eyes:												·
		<u>Eyes</u> : Redness, burning, irritation, and swelling around eyes <u>Skin</u> : Redness, burning, itching, rash, blistering of skin.												
		Ingestion:												
		Inhalation:	Coughing, whe	ezing, swelling	of throat	, irritat	ion in i	mucou	s men	brane	s, diffic	ulty br	reathin	g.
2.4	Acute Health Effects:												s and ι	upper respiratory
	a		narmful if swallo			y be h	armful	if abso	orbed t	hrough	skin.			
2.5	Chronic Health Effects:		he nervous syst											
2.6	Target Organs:	Eyes, skin, ner	vous system, k	idneys, liver, re	espiratory	systen	n.							
		3. CO	OMPOSITI	ON & INC	REDI	ENT	INF	ORI	TAN	ION				
									EXPC	SURE L	IMITS IN		g/m³)	
						AC	GIH		NOHSC	;		OSHA		
						p	om	<u> </u>	ppm			ppm	ı	
CHEMI	CAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	TLV	STEL	IDLH	OTHER
WATE		7732-18-5	ZC0110000	231-791-2	60-100	NE	NE	NF	NF	NF	NE	NE	NE	STILK
		7783-00-8	VS7175000	231-974-7	1-5	(0.2)	NA	(0.2)	NF	NF	(0.2)	NA	NA	
SELEN	NIOUS ACID		Acute Tox. 3; Aqu								(0.2)	INA	INA	<u> </u>
NUTS	2.4010	7697-37-2	QU5775000	231-714-2	1-3	2	4	2	4	NF	2	NA	25	
NITRI	C ACID		in Corr. 1A; H272											
CLIDE	IC CLII EATE	7758-99-8	NA	NA	5-10	(1)	NA	NF	NF	NF	(1)	NA	1000	
CUPK	IC SULFATE	Acute Toxicity	/ 4; H302											
			<u> </u>											



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 6/24/2014 4. FIRST AID MEASURES DO NOT INDUCE VOMITING. Contact Poison Control Center +1 (866) 291-7152 or the nearest Poison 4 1 First Aid: Ingestion: 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. If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minutes, Eyes: holding evelid(s) open to ensure complete flushing. If the eyes or face become swollen during or following use, consult a physician or emergency room immediately. Skin: Remove contaminated clothing and wash affected areas with soap and water. If discomfort persists and/or the skin reaction worsens, contact a physician immediately. Do not wear contaminated clothing until after it has been properly cleaned. Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial Inhalation: respiration. Seek immediate medical attention. 4.2 Medical Conditions 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. 2 **PHYSICAL HAZARDS** PROTECTIVE EQUIPMENT Н **EYES** LUNGS SKIN 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 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



11.8

11.9

Biological Exposure Indices:

Physician Recommendations:

ΝE

Treat symptomatically.

## SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 6/24/2014 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: No data available. 122 Effects on Plants & Animals: No data available. 12.3 Effects on Aquatic Life: Very toxic to aquatic life with long lasting effects. Phosphoric Acid: EC<sub>50</sub> (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 49 CFR (GND): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, II, LTD QTY (IP VOL ≤ 1.0 L) CONSUMER COMMODITY; EXCEPTED QUANTITY 14.2 IATA (AIR): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8,II, LTD QTY (IP VOL ≤ 0.1 L) 14.3 IMDG (OCN): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, II, LTD QTY (IP VOL  $\leq$  1.0 L) **EXCEPTED QUANTITY** 14.4 TDGR (Canadian GND): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, II, LTD QTY (IP VOL  $\leq$  1.0 L) 14.5 ADR/RID (EU): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S, (SELENIOUS ACID, NITRIC ACID), 8, II, LTD QTY (IP VOL  $\leq$  1.0 L) **EXCEPTED QUANTITY** 14.6 SCT (MEXICO): UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO NITRICO), 8, II, CANTIDAD LIMITADA (IP VOL ≤ 1.0 L) 14.7 ADGR (AUS): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, II, LTD QTY (IP VOL  $\leq$  1.0 L) **EXCEPTED QUANTITY** \* This product may also be shipped as an Excepted Quantity (Inner Package Volume ≤ 30 mL, Total Quantity ≤ 500 mL per Outer Package) 15. REGULATORY INFORMATION 15.1 SARA Reporting Requirements: This product contains Nitric Acid, Cupric Sulfate and Selenious Acid, substances subject to SARA Title III, section 313 reporting requirements. 15.2 SARA Threshold 302 TPQ (Nitric Acid): 1.000 lbs (454 kg) Quantity: The components of this product are listed on the TSCA Inventory. 15.3 TSCA Inventory Status: 15.4 CERCLA Reportable Quantity Selenious Acid: 10 lbs (4.54 kg); Nitric Acid: 1,000 lbs (454 kg); Cupric Sulfate: 10 lbs (4.54 kg) Other Federal Requirements: 15.5 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 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). 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). 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).



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		15. REGULATORY INFORMATION – cont'd				
15.8	Other Requirements:	The primary components of this product are listed in Annex I of EU Directive 67/548/EEC.  Selenious Acid: Corrosive (C), Toxic (T).  Risk Phrases (R): R35 – Causes severe burns.  Safety Phrases (S): S1/2-7/9-24/25-26-28-46 - Keep locked up and out of the reach of children.  Keep container tightly closed and in a well-ventilated place. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash with plenty of soap and warm water. If swallowed, seek medical advice immediately and show this container or label.  Nitric Acid: Irritaant (Xi).  Risk Phrases (R): 36/38 – Irritating to eyes and skin.  Safety Phrases (S):1/2-23-26-36-45 – Keep locked up and out of reach of children. Do not breathe fumes/vapors. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. In case of accident or if you feel unwell seek medical advice immediately (show label where possible)				
		16. OTHER INFORMATION				
16.1						
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.				
16.3	Occ last page of this datety bata officet.					
16.4	Prepared for:	Birchwood Casey 7887 Fuller Road, Suite #100 Eden Prairie, MN 55344 USA Tel: +1 (952) 388-6701 Fax: +1 (952) 388/6702 http://www.birchwoodCasey.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.	CAS No. Chemical Abstract Service Number						
EXPOSURE	EXPOSURE LIMITS IN AIR:						
ACGIH   American Conference on Governmental Industrial Hygienists							

## IDLH Immediately Dangerous to Life and Health FIRST AID MEASURES:

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

#### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

OSHA U.S. Occupational Safety and Health Administration

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

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

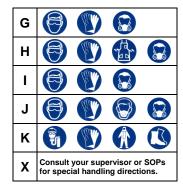
TLV Threshold Limit Value

PEL Permissible Exposure Limit

HEALTH **FLAMMABILITY** PHYSICAL HAZARDS PERSONAL PROTECTION

#### PERSONAL PROTECTION RATINGS:

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













Face Shield &



**Dust & Vapor Half-**Mask Respirator

**Full Face** Respirator

Airline Hood/Mask or SCBA

### OTHER STANDARD ABBREVIATIONS:

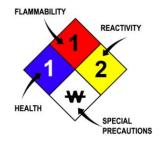
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus
Flam.	Flammable
Liq.	Liquid
Sol.	Solid
Tox.	Toxicity
Irrit.	Irritation
Sens.	Senitization
Ox.	Oxidizing
Corr.	Corrosion
Repr.	Reproductive (Harm)
Asp.	Aspiration
Inh.	Inhalation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

#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILI	FLAMMABILITY LIMITS IN AIR:					
Autoignition	Autoignition Minimum temperature required to initiate combustion in air with no other source					
Temperature	of ignition					
LEL 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
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
₩	Use No Water
ОХ	Oxidizer
TREFOIL	Radioactive



#### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
	S
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	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TCo, LCio, & LCo	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL <sub>m</sub>	Median threshold limit
log K <sub>ow</sub> or log K <sub>oc</sub>	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	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	<b>(</b>	<b>(2)</b>		$\odot$	(1)		R
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

## EC (67/548/EEC) INFORMATION:

		M	¥		<b>@</b>	X	X
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

			$\Diamond$			<b>\</b>		<b>(</b>
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environ- ment