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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards SDS Revision: 3.2 SDS Revision Date: 10/10/2023

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1.1	Draduat Name		PRODUC [®]		PANY	IDE	NIII	-ICA	110	N				
1.1	Product Name:	ANTIQUE	E BLACK®	[®] M24										
1.2	Chemical Name:	Acid Mixture												
1.3	Synonyms:	740050, 7400	51, 740051INT.	. 740040, 7400)58									
1.4	Trade Names:	Antique Black	® M24											
1.5	Product Use:	Blackening Sc	lution for Brass	& Copper										
1.6	Distributor's Name:	Birchwood Lal	ooratories LLC											
1.7	Distributor's Address:	7900 Fuller Ro	oad, Eden Prair	rie, MN 55344	USA									
1.8	Emergency Phone:	ChemTrec +	-1 (800) 424 - 9	9300 / +1 (70	3) 527-3	887 o	r Pois	on C	ontro	l Cent	ter +1	(855)	281-1	742
1.9	Business Phone / Fax:	+1 (952) 937-	7900 / +1 (952)) 937-7979										
			2. HA	ZARDS I	DENT	IFIC	ATIC	ON						
2.1	Hazard Identification: Label Elements:	Canadian WH DANGER! TO ORGANS TH LASTING EFF Classification:	2. HAZARDS IDENTIFICATION Prepared in accordance with UN Globally Harmonized standards. Intended to comply with OSHA 29 CFR 1910.1200. Canadian WHMIS and Australian Work Health and Safety. DANGER! TOXIC IF SWALLOWED. 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. Classification: Acute Tox. 3, Skin Corr. 1A, STOT RE 2, Chronic Aquatic 1 Hazard Statements (H): H301 – Toxic if swallowed. H314 - Causes severe skin burns and eye						E DAMAGE TO					
		Very toxic to aquatic life with long lasting effects. Precautionary Statements (P): P260 - Do not breathe mist/fumes/vapors/spray. P264+P265 – Wash hands and exposed skin areas with soap and warm water thoroughly after handling. Do not touch eyes. P270 – Do not eat, drink, or smoke when using this product. P273 – Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302+P361+P354 – IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. P363 – Wash contaminated clothing before reuse. P321 – Specific treatment see section 4 (first aid) of this SDS. P304+P340 – IF INHALED: Remover person to fresh air and keep comfortable for breathing. P305+P354+P338 - IF IN EYES: Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P316 – Get emergency medical help immediately. P321 – Specific treatment see section 4 (first aid) of this SDS. P363 – Wash contaminated clothing before reuse. P391 – Collect spillage. P405 – Store locked up. P501 – Dispose of contents/ container to an approved waste treatment, storage or disposal facility (TSDF).												
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards

SDS Revision: 3.2

SDS Revision Date: 10/10/2023

			4. FIRST AID MEASURES		
4.1	First Aid:	Ingestion:	Do not induce vomiting. Call +1 (855) 281-1742 for emerg	gency medical advice. If vomiting occur	s keen
		<u>mgestion</u> .	victim's head lowered (forward) to keep vomit from enteri transport if any symptoms noted.		
		Eyes:	Remove and discard contact lenses if worn and flush eyes wi Seek immediate medical attention when done rinsing eyes.	th large amounts of water for at least 20 i	minutes.
		Skin:	Remove contaminated clothing and wash exposed skin with attention if any blistering, swelling or open sores develop.	large amounts of soap and water. Seek	medical
		Inhalation:	Move victim to fresh air. Contact emergency medical servic victim loses consciousness.	es (911) if any difficulty in breathing occ	urs or if
4.2	Effects of Exposure:	Eyes:	Severe or permanent eye damage.		
		Skin: Ingestion:	Burns upon direct contact. 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: Inhalation:	Nausea, vomiting, severe abdominal pain. Coughing, wheezing, swelling of throat, irritation in mucous i	membranes difficulty breathing	
4.4	Acute Health Effects:		or throat, initiation in microus inful if inhaled. Material is extremely destructive to the tissue o		piratory
		tract. May be	e harmful if swallowed. Causes burns. May be harmful if absor		
4.5	Chronic Health Effects:	, ,	e the nervous system, kidney and/or liver.		
4.6	Target Organs: Medical Conditions		nervous system, kidneys, liver, respiratory system.	LICAL TIL	
7.7	Aggravated by Exposure:		dermatitis, other skin conditions, and disorders of the target s, skin, and respiratory system) or impaired kidney function	HEALTH	3
			susceptible to the effects of this substance. 1`	FLAMMABILITY	0
				PHYSICAL HAZARDS	2
				PROTECTIVE EQUIPMENT	Н
4.8	Notes to Physician:	·	contains Selenious Acid and is potentially fatal if ingested ev	EYES SKIN LUNGS	
			ed in asymptomatic or minimally symptomatic patients as delay ailure may occur. 24/7 medical toxicology consultation is avail		
5.1	Fire & Explosion Hazards:	multi-organ f	5. FIREFIGHTING MEASURES ble. May react with metals to release hydrogen gas, which can	able at +1 (855) 281-1742. form explosive mixtures with	
5.1	Fire & Explosion Hazards: Extinguishing Methods:	multi-organ f Non-flamma air. May inte	5. FIREFIGHTING MEASURES	able at +1 (855) 281-1742. form explosive mixtures with	
	· 	Non-flamma air. May inte Use fire-extil As with any approved or for surround may produce Fire should water spray	5. FIREFIGHTING MEASURES ble. May react with metals to release hydrogen gas, which can ensity fire; oxidizer. Keep/Store away from clothing/ combustite	form explosive mixtures with ble materials. Int including a MSHA/NIOSH tective clothing. Fight fires as leased. Thermal degradation rocarbons and/or derivatives. well after the fire is out. Use a upwind. Prevent runoff from	2
5.2	Extinguishing Methods:	Non-flamma air. May inte Use fire-extil As with any approved or for surround may produce Fire should water spray	5. FIREFIGHTING MEASURES ble. May react with metals to release hydrogen gas, which can ensity fire; oxidizer. Keep/Store away from clothing/ combustib nguishing media appropriate for surrounding materials. fire, firefighters should wear appropriate protective equipme equivalent self-contained breathing apparatus (SCBA) and proing materials. Hazardous decomposition products may be relevanted to cool fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, or	form explosive mixtures with ble materials. Int including a MSHA/NIOSH tective clothing. Fight fires as leased. Thermal degradation rocarbons and/or derivatives. well after the fire is out. Use a upwind. Prevent runoff from or any natural waterway.	2
5.2	Extinguishing Methods:	Non-flamma air. May inte Use fire-extil As with any approved or for surround may produce Fire should water spray fire control of	5. FIREFIGHTING MEASURES ble. May react with metals to release hydrogen gas, which can ensity fire; oxidizer. Keep/Store away from clothing/ combustic neguishing media appropriate for surrounding materials. fire, firefighters should wear appropriate protective equipme equivalent self-contained breathing apparatus (SCBA) and proing materials. Hazardous decomposition products may be recoxides of carbon, phosphorous, selenium and/or nitrogen, hyd be fought from a safe distance. Keep containers cool until we to cool fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the ACCIDENTAL RELEASE MEASURI	form explosive mixtures with ble materials. Int including a MSHA/NIOSH tective clothing. Fight fires as leased. Thermal degradation rocarbons and/or derivatives. well after the fire is out. Use a upwind. Prevent runoff from or any natural waterway.	2
5.2 5.3	Extinguishing Methods: Firefighting Procedures:	Non-flamma air. May inte Use fire-extil As with any approved or for surround may produce Fire should water spray fire control of the control	5. FIREFIGHTING MEASURES ble. May react with metals to release hydrogen gas, which can ensity fire; oxidizer. Keep/Store away from clothing/ combustite neguishing media appropriate for surrounding materials. fire, firefighters should wear appropriate protective equipme equivalent self-contained breathing apparatus (SCBA) and proing materials. Hazardous decomposition products may be recovides of carbon, phosphorous, selenium and/or nitrogen, hydrocol fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surfaces and to protect personal fire skin contact. Wear appropriate protective equipment including gloves and phency as a vermiculite or sand to soak up the product and place into the compatible materials (e.g., organics such as oil) away alate immediate hazard area and keep unauthorized personnel risk. Wear appropriate protective equipment including respire liquid as possible and collect in acid-resistant container. Use	form explosive mixtures with ble materials. Int including a MSHA/NIOSH tective clothing. Fight fires as leased. Thermal degradation rocarbons and/or derivatives. Well after the fire is out. Use a upwind. Prevent runoff from or any natural waterway. ES wear appropriate Personal Protective Equand other protective clothing (e.g., apronout of area. Stop spill or release if it can ratory protection as conditions warrant.	zipment , boots, lle, inert n spill or be done Recover
5.2 5.3	Extinguishing Methods: Firefighting Procedures:	Non-flamma air. May inte Use fire-extil As with any approved or for surround may produce Fire should water spray fire control of the control	5. FIREFIGHTING MEASURES ble. May react with metals to release hydrogen gas, which can ensity fire; oxidizer. Keep/Store away from clothing/ combustite neguishing media appropriate for surrounding materials. fire, firefighters should wear appropriate protective equipme equivalent self-contained breathing apparatus (SCBA) and proing materials. Hazardous decomposition products may be recovides of carbon, phosphorous, selenium and/or nitrogen, hydrocol fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surfaces and to protect personal fire skin contact. Wear appropriate protective equipment including gloves and personal has vermiculite or sand to soak up the product and place into the Keep incompatible materials (e.g., organics such as oil) award late immediate hazard area and keep unauthorized personnel risk. Wear appropriate protective equipment including respirate protective equ	form explosive mixtures with ble materials. Int including a MSHA/NIOSH tective clothing. Fight fires as leased. Thermal degradation rocarbons and/or derivatives, well after the fire is out. Use a upwind. Prevent runoff from or any natural waterway. ES wear appropriate Personal Protective Equand other protective clothing (e.g., apronout of area. Stop spill or release if it can ratory protection as conditions warrant. In absorbent to pick up residue. Avoid discontinuations.	zipment , boots, lle, inert n spill or be done Recover
5.2 5.3	Extinguishing Methods: Firefighting Procedures: Spills:	Non-flamma air. May inte Use fire-extil As with any approved or for surround may produce Fire should water spray fire control of the control	5. FIREFIGHTING MEASURES ble. May react with metals to release hydrogen gas, which can ensity fire; oxidizer. Keep/Store away from clothing/ combustibly inguishing media appropriate for surrounding materials. If ire, firefighters should wear appropriate protective equipme equivalent self-contained breathing apparatus (SCBA) and proing materials. Hazardous decomposition products may be receivated of carbon, phosphorous, selenium and/or nitrogen, hydrogen from a safe distance. Keep containers cool until wear occol fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surfaces and face shield; use gloves a sent skin contact. Mear appropriate protective equipment including gloves and ph as vermiculite or sand to soak up the product and place into the Keep incompatible materials (e.g., organics such as oil) awallate immediate hazard area and keep unauthorized personnel in risk. Wear appropriate protective equipment including respine liquid as possible and collect in acid-resistant container. Use y into a sewer or surface waters. 7. HANDLING & STORAGE INFORMAT	form explosive mixtures with ble materials. Int including a MSHA/NIOSH tective clothing. Fight fires as leased. Thermal degradation rocarbons and/or derivatives. Well after the fire is out. Use a upwind. Prevent runoff from or any natural waterway. ES Wear appropriate Personal Protective Equand other protective clothing (e.g., apronorotective eyewear. Use a non-combustite a container for later disposal. By from spill. Stay upwind and away from out of area. Stop spill or release if it can reatory protection as conditions warrant. In absorbent to pick up residue. Avoid discitions.	uipment, boots, le, inert in spill or be done Recover charging
5.2 5.3	Extinguishing Methods: Firefighting Procedures:	Non-flamma air. May inte Use fire-extil As with any approved or for surround may produce Fire should water spray fire control of the control	5. FIREFIGHTING MEASURES ble. May react with metals to release hydrogen gas, which can ensity fire; oxidizer. Keep/Store away from clothing/ combustite neguishing media appropriate for surrounding materials. fire, firefighters should wear appropriate protective equipme equivalent self-contained breathing apparatus (SCBA) and proing materials. Hazardous decomposition products may be recovides of carbon, phosphorous, selenium and/or nitrogen, hydrocool fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surfaces and to protect personal fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surface and face shield; use gloves are safety glasses or safety goggles and face shield; use gloves are skin contact. Wear appropriate protective equipment including gloves and phase vermiculite or sand to soak up the product and place into the Keep incompatible materials (e.g., organics such as oil) award late immediate hazard area and keep unauthorized personnel risk. Wear appropriate protective equipment including respire eliquid as possible and collect in acid-resistant container. Use y into a sewer or surface waters. 7. HANDLING & STORAGE INFORMAT ing mists or spray. Avoid eye and skin contact. Wear protective children. Do not eat, drink or smoke when handling this product lame. Use only in ventilated areas. Keep out of the reach of children.	form explosive mixtures with ble materials. Int including a MSHA/NIOSH tective clothing. Fight fires as leased. Thermal degradation rocarbons and/or derivatives. Well after the fire is out. Use a upwind. Prevent runoff from or any natural waterway. ES Wear appropriate Personal Protective Equand other protective clothing (e.g., apronout of area. Stop spill or release if it can ratory protection as conditions warrant. In absorbent to pick up residue. Avoid discrete. TION e equipment when handling product. Keels. Wash thoroughly after handling. Do not	zipment , boots, lle, inert expose expose
5.2 5.3	Extinguishing Methods: Firefighting Procedures: Spills:	Non-flamma air. May inte Use fire-extil As with any approved or for surround may produce Fire should water spray fire control of the straight	5. FIREFIGHTING MEASURES ble. May react with metals to release hydrogen gas, which can ensity fire; oxidizer. Keep/Store away from clothing/ combustite neguishing media appropriate for surrounding materials. fire, firefighters should wear appropriate protective equipme equivalent self-contained breathing apparatus (SCBA) and proing materials. Hazardous decomposition products may be recovides of carbon, phosphorous, selenium and/or nitrogen, hydrocool fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surfaces and to protect personal. Fight fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surfaces and to protect personal fire redilution from entering sewers, drains, drinking water supply, of the cool fire-exposed surface and face shield; use gloves are safety glasses or safety goggles and face shield; use gloves are skin contact. Wear appropriate protective equipment including gloves and phase vermiculite or sand to soak up the product and place into the Keep incompatible materials (e.g., organics such as oil) award late immediate hazard area and keep unauthorized personnel risk. Wear appropriate protective equipment including respire eliquid as possible and collect in acid-resistant container. Use y into a sewer or surface waters. 7. HANDLING & STORAGE INFORMAT ing mists or spray. Avoid eye and skin contact. Wear protective children. Do not eat, drink or smoke when handling this product lame. Use only in ventilated areas. Keep out of the reach of children.	form explosive mixtures with ble materials. Int including a MSHA/NIOSH tective clothing. Fight fires as leased. Thermal degradation rocarbons and/or derivatives. Well after the fire is out. Use a upwind. Prevent runoff from or any natural waterway. ES Wear appropriate Personal Protective Equand other protective clothing (e.g., apronout of area. Stop spill or release if it can ratory protection as conditions warrant. It absorbent to pick up residue. Avoid discrete equipment when handling product. Kee wash thoroughly after handling. Do not ildren. Immediately clean-up and decont use. Avoid temperatures above 40°C mers from physical damage.	Lipment, boots, between the spill or be done Recover charging aminate sunlight.



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3.1	Exposure Limits:	8. EXPOSURE CONT	AC			NOHSC			OSHA		OTHER
	ppm (mg/m³)					ES-	ES-				OTHER
		CHEMICAL NAME(S)	TLV	STEL	ES-TWA	STEL	PEAK	PEL	STEL	IDLH	
		PHOSPHORIC ACID	(1)	(3)	NF	NF	NF	NA	NA	1000	
		SELENIOUS ACID CUPRIC SULFATE	(0.2)	NA	(0.2)	NF	NF	(0.2)	NA	NA	
		AMMONIUM MOLYBDATE	(1) (10)	NA NA	NF NF	NF NF	NF NF	(1) NA	NA NA	1000 NA	
		ZINC SULFATE	(0.1)	NA NA	NF	NF	NF	(1)	NA NA	NA	
.2	Ventilation & Engineering Controls:	Use local or general exhaust vent handling of this product. Ensure a station).	ilation to	effective	ly remove	and pre	vent buildu	ip of vap	ors or m	ist gene	
3.3	Respiratory Protection:	In instances where vapors or spra use only protection authorized by 2	n 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								
3.4	Eye Protection:	Safety glasses with side shields r shield is also recommended.	Safety glasses with side shields must be used when handling or using this product. A protective face								
3.5	Hand Protection:	Wear protective, chemical-resistant gloves (e.g., neoprene) when using or handling this product.									
3.6	Body Protection:	A chemical resistant apron and/o product.	r protect	ive cloth	ng are re	commen	ded when	handling	or usin	g this	
		9. PHYSICAL	& CH	FMIC	AI PRO)PFR	TIFS				
0.1	Appearance:	Clear, blue liquid	<u> </u>		·= · · · · ·	<u> </u>					
.2	Odor:	Odorless									
.3	Odor Threshold:	NA									
4	pH:	< 1.0									
.5	Melting Point/Freezing Point:	NA									
.6	Initial Boiling Point/Boiling Range:	> 100 °C (> 212 °F)									
0.7	Flashpoint:	NA									
8.0	Upper/Lower Flammability	NA									
9.9	Limits: Vapor Pressure:	NA									
9.10	Vapor Density:	< 1.0 (air = 1.0)									
9.11	Relative Density:	1.099									
9.12	Solubility:	Complete (water)									
9.13	Partition Coefficient (log Pow):	NA									
9.14	Autoignition Temperature:	NA									
.15	Decomposition Temperature:	NA									
0.16	Viscosity:	NA									
0.17	Other Information:	Evaporation Rate: < 1.0 (ethyl ethe	er = 1 0)								
		10. STA	BILIT	Y & R	EACTI	VITY					
0.1	Stability:	Stable at normal temperatures.									
0.2	Hazardous Decomposition Products:	Reaction with organics and stror decomposition may produce selen									
0.3	Hazardous Polymerization:	Will not occur.	•		•		•	•		<u> </u>	
0.4	Conditions to Avoid:	Excessive heat.									
0.5	Incompatible Substances:	Cyanides, water-reactive substan materials, and most metals.	ces, stro	ng redu	ing agent	s, chlorii	nated clea	ners or	sanitizers	s, comb	ustible orga
		11. TOXICO	LOGI	CALI	NFORI	MATIC	ON				
11.1	Routes of Entry:	Inhalation: YES		- - -	Absorption:				Ingest	ion: NO)
11.2	Toxicity Data:	Solution: LD ₅₀ (oral, rat) = 1030 mg	g/kg; <u>Cup</u>	ric Sulfat	<u>e</u> : LD ₅₀ (or		300 mg/kg	;Phosph	oric Acid		
11.3	Acute Toxicity:	See Section 4.4									
11.4	Chronic Toxicity:	See Section 4.5									
	Suspected Carcinogen:	Selenious Acid is listed by IARC of	_	2 / 4 - 1 -	:C . I. I						



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		11. TOXICOLOGICAL INFORMATION – cont'd
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.
1.7	Irritancy of Product:	See Section 4.2
11.8	Biological Exposure Indices: Physician Recommendations:	NE
11.9	riiysidan Recommendations.	This product contains <u>Selenious Acid</u> and is potentially fatal if ingested even in small amounts. 24-hour admission shou be considered in asymptomatic or minimally symptomatic patients as delayed toxic effects including pulmonary edema ar multi-organ failure may occur. 24/7 medical toxicology consultation is available at +1 (855) 281-1742.
		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: EC ₅₀ (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 appropria
		disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, ar
		federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage ar
		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
		nber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional
desc 4.1		e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC
		ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
4.2	IATA (AIR):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)
4.3	IMDG (OCN):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
4.4	TDGR (Canadian GND):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
4.5		UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
4.6	SCT (MEXICO):	UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO FOSFORICO), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)
4.7	ADGR (AUS):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
		15. REGULATORY INFORMATION
5.1	SARA Reporting Requirements	This product contains <u>Selenious Acid</u> , <u>Cupric Sulfate</u> and <u>Phosphoric Acid</u> , substances subject to SARA Title III, section 313 reporting requirements.
	SARA TPQ:	NA NA
5.2	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.
	TOCA Inventory Status.	
5.3	CERCLA Reportable Quantity:	Selenious Acid: 10 lbs (4.54 kg); Cupric Sulfate: 10 lbs (4.54 kg); Phosphoric Acid: 5,000 lbs (2,270 kg)
15.2 15.3 15.4 15.5	· ·	Selenious Acid: 10 lbs (4.54 kg); Cupric Sulfate: 10 lbs (4.54 kg); Phosphoric Acid: 5,000 lbs (2,270 kg) NA



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		15. REGULATORY INFOR	MATION – cont'd
15.7	State Regulatory Information:	Selenious Acid is found on the following state criter Substances List (MA), Minnesota Hazardous Substances List (WI). Zinc Sulfate is found on the following state criteria is Phosphoric Acid is found on the following state crit. No other ingredients in this product, present in a concriteria lists: California Proposition 65 (CA65), De List (FL), Massachusetts Hazardous Substances List (MN), New Jersey Right-to-Know Right-to-Know List (PA), Washington Permissible E product does not contain any chemicals known to to more information go to www.P65Warnings.ca.gov .	ia lists: Florida Toxic Substances List (FL), Massachusetts Hazardous ances List (MN), Pennsylvania Right-to-Know List (PA), and Wisconsin lists: MA, and PA.
15.8	Other Requirements:	NA	
		16. OTHER INFOR	RMATION
16.1	Other Information:	ORGANS THROUGH PROLONGED OR REPEATLASTING EFFECTS. Obtain, read, and follow all safety instructions before exposed skin areas with soap and warm water thorough when using this product. Avoid release to the environce protection. IF SWALLOWED: Rinse mouth. Do NOT clothing. Immediately rinse with water for several missee section 4 (first aid) of this SDS. IF INHALED: REYES: Rinse with water for several minutes. Remore emergency help immediately. Specific treatment: se KEEP OUT OF REACH OF CHILDREN.	TERE SKIN BURNS OR EYE DAMAGE. MAY CAUSE DAMAGE TO TED EXPOSURE. VERY TOXIC TO AQUATIC LIFE WITH LONG or use. Do not breathe mist/fumes/vapors/spray. Wash hands and broughly after handling. Do not touch eyes. Do not eat, drink, or smoke comment. Wear protective gloves/protective clothing/ ye protection/face induce vomiting. IF ON SKIN: Take off immediately all contaminated dinutes. Wash contaminated clothing before reuse. Specific treatment temover person to fresh air and keep comfortable for breathing. IF IN ove contact lenses, if present and easy to do. Continue rinsing. Get e section 4 (First Aid) of this SDS. Collect spillage. Store locked up.
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for app Technologies' knowledge, the information containe suitability or completeness is not guaranteed and r The information contained herein relates only to the	HA's Hazard Communication Standard, 29 CFR §1910.1200. Other plicability to this product. To the best of ShipMate's & Birchwood d herein is reliable and accurate as of this date; however, accuracy, no warranties of any type, either expressed or implied, are provided. specific product(s). If this product(s) is combined with other materials, ta may be changed from time to time. Be sure to consult the latest
16.4	Prepared for:	Birchwood Technologies 7900 Fuller Road Eden Prairie, MN 55344 USA Tel: +1 (952) 937-7900 Fax: +1 (952) 937-7979 http://www.birchwoodtechnologies.com	BIRCHWOOD®
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	ShipMate* Dangerous Goods Training & Consulting



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DEFINITION OF TERMS

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

GENERAL INFORMATION:

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

EXPOSURE LIMITS IN AIR:

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

FIRST AID MEASURES:

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

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

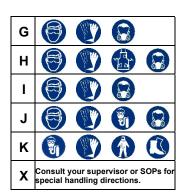
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С			
D			
Е			
F		TI N	





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:

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 🔪		
OX	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 parts			
TDio	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, 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	SL Canadian Priority Substances List				
TSCA	ICA 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:

	(A)	(2)	(3)	\odot	(4)		(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

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

	③		\Diamond			\Diamond		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment