

Page 1 of 6 **BTI-020**

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1.1	Product Name:		BLACK®		IANI	IDEI		IOA	1101	•				
			DLACK	DO14										
1.2	Chemical Name:	Acid Mixture												
1.3	Synonyms:	_	DINT, 530051, 5	30052, 53005	51INT, 530	040, 53	80058							
1.4	Trade Names:	Presto Black												
1.5	Product Use:		Blackening Solution for Iron and Steel											
1.6	Distributor's Name:		Birchwood Laboratories LLC											
1.7	Distributor's Address:		7900 Fuller Road, Eden Prairie, MN 55344 USA ChemTrec +1 (800) 424-9300 // +1 (703) 527-3887 or Poison Control Center +1 (855) 281-1742											
1.8	Emergency Phone: Business Phone / Fax:		+1 (800) 424- 7-7900 // +1 (95		703) 527-	3887 c	r Pois	son C	ontro	ol Cen	ter +	1 (855	281-1	1742
1.5	Business Filone / Fax.	+1 (952) 93												
				ZARDS										
2.1	Hazard Identification:		accordance with HMIS and Austr				ndards	. Inten	ded to	comp	oly with	OSH/	A 29 CI	FR 1910.1200.
		DANGER! TO ORGANS TO LASTING ER	OXIC IF SWAL ROUGH PRO FECTS.	LOWED. CAU LONGED OR	JSE SEVE REPEAT	RE SK ED EX	POSU	RE. V						
2.2	Label Elements:								ora el	rin hur	ne and	1		^
	eye damage. H373 - May cause damage to organs through prolonged or repeated exposure. H410 – Very toxic to aquatic life with long lasting effects. Precautionary Statements (P): P260 - Do not breathe dust/mist/fume/vapor/spray. P264+P265 – Wash hands and exposed skin areas with soap and warm water thoroughly after handling. Do not touch your 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 help immediately. P321 – Specific treatment see section 4 (first aid) of this SDS. P391 – Collect spillage. P405 – Store locked up. P501 – Dispose of contents/ container to an approved waste disposal plant (TSDF).													
2.3	Other Warnings:	breathing. P contact lens immediately spillage. P4t waste dispos	305+P354+P33 es, if present a P321 – Specifi 05 – Store lock sal plant (TSDF) of an exposure may seek advice	8 - IF IN EYE nd easy to do c treatment seed up. P501 -). or medical ince from the U.S	ver person S: Rinse w b. Continue ee section - Dispose	to frest vith wat e rinsin 4 (first of conf	er for a er for s g. P31 aid) of tents/ o	and ke severa l6 – G this S contair uct, ple	eep co il minu et em DS. P: ner to	mforta tes. Ro ergend 391 – G an app ontact	ble for emove by help Collect proved		or local	poison control
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4.0	Effects of Evenesium	4. FIRST A			cont'd						
4.2	Effects of Exposure:	Eyes: Severe or permanent Skin: Burns upon direct cor Ingestion: Severe burns of mout Inhalation: Severe irritation or bu	ntact. th, throat, st	omach.	mucous me	embranes	. Possib	le lung c	lamage.		
4.3	Symptoms of Overexposure:	Eyes: Redness, burning, irritation, and swelling around eyes Skin: Redness, burning, itching, rash, blistering of skin. Ingestion: Nausea, vomiting, severe abdominal pain. Inhalation: Coughing, wheezing, swelling of throat, irritation in mucous membranes, difficulty breathing.									
4.4	Acute Health Effects:	May be harmful if inhaled. Material tract. May be harmful if swallowed.						nbranes	and upp	er resp	iratory
4.5	Chronic Health Effects:	May damage the nervous system, k	idney and/o	r liver.							
4.6	Target Organs:	Eyes, skin, nervous system, kidneys									
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin organs (eyes, skin, and respiratory may be more susceptible to the effe	system) or	impaired kidne			MABILI				0
							CAL HA				2
						PROT	ECTIVE	EQUIF	MENT		Н
						EYES	SK	IN	LUNG	S	
		5 FIDEE	IGHTIN	G MEASU	RES						
5.1	Fire & Explosion Hazards:	Non-flammable. May react with metair. May intensity fire; oxidizer. Kee	als to releas	e hydrogen gas	, which car			ixtures v	vith		
5.2	Extinguishing Methods:	Use fire-extinguishing media approp	oriate for sur	rrounding materi	ials.						
		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.									
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6.1	Spills:	6. ACCIDENT Before cleaning any spill or leak, ind (PPE). Use safety glasses or safety etc.) to prevent skin contact. Small Spills: Wear appropriate prot inert material such as vermiculite or Large Spills: Keep incompatible marelease. Isolate immediate hazard done with minimal risk. Wear app Recover as much free liquid as post discharging liquid directly into a several service.	ividuals invo y goggles ar tective equip sand to soa aterials (e.g. area and k propriate pro ssible and c	LEASE ME Dived in spill clea and face shield; u poment including ak up the produc ., organics such eep unauthorize otective equipme collect in acid-res	nup must v se gloves and gloves and tot and place as oil) award ed personnent includir	vear approand other d protectine into a coay from speel out of any respira	opriate Poprotective eyeweentainer fill. Stay area. Statory prot	ersonal le clothine ear. Use for later upwind a op spill ection a	Protective g (e.g., e a non-disposal and awa or releases conditions)	apron, -combu l. by from se if it o	boots, stible, spill or can be arrant.
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7.1	Work & Hygiene Practices: Storage & Handling: Special Precautions: Exposure Limits:	6. ACCIDENT Before cleaning any spill or leak, ind (PPE). Use safety glasses or safety etc.) to prevent skin contact. Small Spills: Wear appropriate prot inert material such as vermiculite or Large Spills: Keep incompatible marelease. Isolate immediate hazard done with minimal risk. Wear appropriate protection with minimal risk. Wear appropriate prot	ividuals involved ground and sective equiparts and to so a aterials (e.g. area and k propriate prossible and cover or surface and section and surface	DEASE ME Dived in spill clea and face shield; u Dement including ak up the product, organics such eep unauthorize obtective equipme collect in acid-reside waters. RAGE INFO skin contact. We noke when hand ted areas. Keep tion (e.g., local e iners covered w Section 10). Product residues. Keep R PERSON. STEL ES-TWA	protect contain protect contai	wear approand other d protective into a coay from spiel out of an grespiral tainer. Use the coay from the coay from	popriate Pprotective eyeween tainer fill. Stay area. Statory protective absorts are absorts for children in a supplied to the protection of the control of t	ersonal le clothin ear. Use for later e upwind a op spill ection a pent to p en handl roughly a n. Imme of from he eratures I damag combusti OSHA STEL	Protective g (e.g., e.g., e.g.	apron, -combu l. ly from se if it of tions w esidue. luct. Ke ndling. clean-t direct st 40°C (1	stible, spill or can be arrant. Avoid ep out Do not up and unlight. 20°F).
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	8.	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd	
8.2	Ventilation & Engineering Controls:	Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, station).	
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.	3
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.	7
8.6	Body Protection:	A chemical resistant apron and/or protective clothing are recommended when handling or using this product.	
			_
	T	9. PHYSICAL & CHEMICAL PROPERTIES	
9.1	Appearance:	Clear liquid	
9.2	Odor:	Odorless	
9.3	Odor Threshold:	0.29 to 0.98 ppm	
9.4	pH:	1.2	
9.5	Melting Point/Freezing Point:	NA NA	
9.6	Initial Boiling Point/Boiling	> 100 °C (> 212 °F)	
9.7	Range: Flashpoint:	Wax: 207 °C (405 °F) COC	
9.8	Upper/Lower Flammability		
0.0	Limits:	NA NA	
9.9	Vapor Pressure:	NA NA	
9.10	Vapor Density:	< 1.0 (air = 1.0)	
9.11	Relative Density:	1.017	
9.12	Solubility:	Complete (water)	
9.13	Partition Coefficient (log Pow):	NA	
9.14	Autoignition Temperature:	NA	
9.15	Decomposition Temperature:	NA NA	
9.16	Viscosity:	NA NA	
9.17	Other Information:	Evaporation Rate: < 1.0 (ethyl ether = 1.0)	
		10 CIVELLIA DEVLIVITA	
	T	10. STABILITY & REACTIVITY	
	Stability:	Stable at normal temperatures.	
10.2	Hazardous Decomposition Products:		. Therma
10.2	Hazardous Decomposition Products: Hazardous Polymerization:	Stable at normal temperatures. Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenide decomposition may produce selenium, nitrogen, phosphoric and copper oxides. Will not occur.	. Therma
10.2 10.3 10.4	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid:	Stable at normal temperatures. Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenided decomposition may produce selenium, nitrogen, phosphoric and copper oxides. Will not occur. Excessive heat, shock, friction.	
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10.1 10.2 10.3 10.4 10.5	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances:	Stable at normal temperatures. Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenided decomposition may produce selenium, nitrogen, phosphoric and copper oxides. Will not occur. Excessive heat, shock, friction. Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustible materials, most metals. 11. TOXICOLOGICAL INFORMATION	
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10.2 10.3 10.4 10.5	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances:	Stable at normal temperatures. Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenided decomposition may produce selenium, nitrogen, phosphoric and copper oxides. Will not occur. Excessive heat, shock, friction. Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustibly materials, most metals. 11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: NO Cupric Sulfate: LD ₅₀ = 43 mg/kg (oral, mouse); LD ₅₀ = 300 mg/kg (oral, rat); LD ₅₀ ≥ 2 gm/kg (skin, rat)	
10.2 10.3 10.4 10.5	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data:	Stable at normal temperatures. Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenide decomposition may produce selenium, nitrogen, phosphoric and copper oxides. Will not occur. Excessive heat, shock, friction. Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustible materials, most metals. 11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: NO Cupric Sulfate: LD ₅₀ = 43 mg/kg (oral, mouse); LD ₅₀ = 300 mg/kg (oral, rat); LD ₅₀ ≥ 2 gm/kg (skin, rat) Selenium Dioxide: LD ₅₀ = 48 mg/kg (oral, rat); LD ₅₀ = 4 mg/kg (skin, rabbit)	
10.2 10.3 10.4 10.5 11.1 11.2	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry:	Stable at normal temperatures. Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenided decomposition may produce selenium, nitrogen, phosphoric and copper oxides. Will not occur. Excessive heat, shock, friction. Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustibly materials, most metals. 11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: NO Cupric Sulfate: LD ₅₀ = 43 mg/kg (oral, mouse); LD ₅₀ = 300 mg/kg (oral, rat); LD ₅₀ ≥ 2 gm/kg (skin, rat)	
110.2 110.3 110.4 110.5 111.1 111.2	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data: Acute Toxicity:	Stable at normal temperatures. Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenidedecomposition may produce selenium, nitrogen, phosphoric and copper oxides. Will not occur. Excessive heat, shock, friction. Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustibly materials, most metals. 11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: NO Cupric Sulfate: LD ₅₀ = 43 mg/kg (oral, mouse); LD ₅₀ = 300 mg/kg (oral, rat); LD ₅₀ ≥ 2 gm/kg (skin, rat) Selenium Dioxide: LD ₅₀ = 48 mg/kg (oral, rat); LD ₅₀ = 4 mg/kg (skin, rabbit) See Section 2.4	
10.2 10.3 10.4 10.5 11.1 11.2 11.3 11.4 11.5	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data: Acute Toxicity: Chronic Toxicity:	Stable at normal temperatures. Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenidedecomposition may produce selenium, nitrogen, phosphoric and copper oxides. Will not occur. Excessive heat, shock, friction. Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustibly materials, most metals. 11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: NO Cupric Sulfate: $LD_{50} = 43$ mg/kg (oral, mouse); $LD_{50} = 300$ mg/kg (oral, rat); $LD_{50} \ge 2$ gm/kg (skin, rat) Selenium Dioxide: $LD_{50} = 48$ mg/kg (oral, rat); $LD_{50} = 4$ mg/kg (skin, rabbit) See Section 2.4 See Section 2.5	
10.2 10.3 10.4 10.5 11.1 11.2 11.3 11.4 11.5	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen:	Stable at normal temperatures. Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenided decomposition may produce selenium, nitrogen, phosphoric and copper oxides. Will not occur. Excessive heat, shock, friction. Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustibly materials, most metals. 11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: NO Cupric Sulfate: LD ₅₀ = 43 mg/kg (oral, mouse); LD ₅₀ = 300 mg/kg (oral, rat); LD ₅₀ ≥ 2 gm/kg (skin, rat) Selenium Dioxide: LD ₅₀ = 48 mg/kg (oral, rat); LD ₅₀ = 4 mg/kg (skin, rabbit) See Section 2.4 See Section 2.5 No. This product is not reported to cause reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans.	
10.2 10.3 10.4 10.5 11.1 11.2 11.3 11.4 11.5	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity:	Stable at normal temperatures. Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenided decomposition may produce selenium, nitrogen, phosphoric and copper oxides. Will not occur. Excessive heat, shock, friction. Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustibly materials, most metals. 11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: NO Cupric Sulfate: LD ₅₀ = 43 mg/kg (oral, mouse); LD ₅₀ = 300 mg/kg (oral, rat); LD ₅₀ ≥ 2 gm/kg (skin, rat) See Section 2.4 See Section 2.5 No. This product is not reported to cause reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans.	
10.2 10.3 10.4 10.5 11.1 11.2 11.3 11.4 11.5	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity:	Stable at normal temperatures. Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenided decomposition may produce selenium, nitrogen, phosphoric and copper oxides. Will not occur. Excessive heat, shock, friction. Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustibly materials, most metals. 11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: NO Cupric Sulfate: LD ₅₀ = 43 mg/kg (oral, mouse); LD ₅₀ = 300 mg/kg (oral, rat); LD ₅₀ ≥ 2 gm/kg (skin, rat) Selenium Dioxide: LD ₅₀ = 48 mg/kg (oral, rat); LD ₅₀ = 4 mg/kg (skin, rabbit) See Section 2.4 See Section 2.5 No. This product is not reported to cause reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans.	
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10.2 10.3 10.4	Hazardous Decomposition Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity:	Stable at normal temperatures. Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenided decomposition may produce selenium, nitrogen, phosphoric and copper oxides. Will not occur. Excessive heat, shock, friction. Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustiblematerials, most metals. 11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: NO Cupric Sulfate: LD₅₀ = 43 mg/kg (oral, mouse); LD₅₀ = 300 mg/kg (oral, rat); LD₅₀ ≥ 2 gm/kg (skin, rat) Selenium Dioxide: LD₅₀ = 48 mg/kg (oral, rat); LD₅₀ = 4 mg/kg (skin, rabbit) See Section 2.4 See Section 2.5 No. This product is not reported to cause reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans. This product is not reported to cause teratogenic effects in humans. See Section 4.2	



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		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.
		13. DISPOSAL CONSIDERATIONS
13.1	Waste Disposal:	Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropri disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, a federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage a disposal of hazardous waste must be provided by a licensed facility or waste hauler.
13.2	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 e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.
14.1	49 CFR (GND):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
14.2	IATA (AIR):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
14.3	IMDG (OCN):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS 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), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
14.5	ADR/RID (EU):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
14.6	SCT (MEXICO):	UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)
14.7	ADGR (AUS):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
		15. REGULATORY INFORMATION
15.1	SARA Reporting Requirements	
15.2	SARA TPQ:	NA NA
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.
15.4	CERCLA Reportable Quantity:	
15.5	Other Federal Requirements:	Selenium Dioxide: Clean Water Act (CWA) hazardous substance
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the HPR and the MSDS contains all the information required by the HPR. 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:	Selenium Dioxide Powder is found on the following state criteria lists: Massachusetts Hazardous Substances List (M Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), Pennsylvania Right-to-Know List (P and Wisconsin Hazardous Substances List (WI).
		No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following st criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substance 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), Pennsylva Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).
		This product does not contain any chemicals known to the State of California to cause cancer or other reproductive halfor more information go to www.P65Warnings.ca.gov.
		For more information go to <u>www.Foswamings.ca.gov</u> .



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		16. OTHER INFO	PRMATION
16.1	Other Information:	ORGANS THROUGH PROLONGED OR REPELASTING EFFECTS. Obtain, read, and follow all safety instructions be exposed skin areas with soap and warm water the when using this product. Avoid release to the enface protection. IF SWALLOWED: Rinse moutly contaminated clothing. Immediately rinse with water for breathing. IF IN EYES: Rinse with water for	FVERE SKIN BURNS OR EYE DAMAGE. MAY CAUSE DAMAGE TO EATED EXPOSURE. VERY TOXIC TO AQUATIC LIFE WITH LONG fore use. Do not breathe dust/mist/fume/vapor/spray. Wash hands and oroughly after handling. Do not touch eyes. Do not eat, drink, or smoke vironment. Wear protective gloves/ protective clothing/ eye protection/ h. Do NOT induce vomiting. IF ON SKIN: Take off immediately all vater for several minutes. Wash contaminated clothing before reuse. SDS. IF INHALED: Remover person to fresh air and keep comfortable several minutes. Remove contact lenses, if present and easy to do. tely. Specific treatment: see section 4 (first aid) of this SDS. Collect
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for a Technologies' knowledge, the information contai 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 applicability to this product. To the best of ShipMate's & Birchwood ned herein is reliable and accurate as of this date; however, accuracy, d no warranties of any type, either expressed or implied, are provided ne specific product(s). If this product(s) is combined with other materials, Data 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® TECHNOLOGIES
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.	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

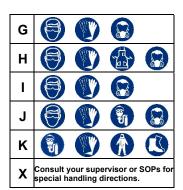
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α		
В		
С		
D		
Е		
F		





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
Sens STOT RE	Sensitization Specific Target Organ Toxicity – Repeat Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILI	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 parts			
TD _{to} Lowest dose to cause a symptom				
TCLo	Lowest concentration to cause a symptom			
TD _{io} , LD _{io} , & LD _o or	, 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	PSL Canadian Priority Substances List					
TSCA	U.S. Toxic Substance Control Act					
EU	J European Union (European Union Directive 67/548/EEC)					
WGK	Wassergefährdungsklassen (German Water Hazard Class)					

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	(*)	(3)		Θ	(B)		R	
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F	
Compresse d	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive	

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

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