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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 3.0 SDS Revision Date: 3/10/2022

		1	PRODUC	T & COM	DANV	IDE	NITIE		TIO	NI				
1.1	Product Name:		BLACK®		IPANT	IDE	IN I IF	TICA	110	<u>IN</u>				
1.2	Chamical Name		BLACK I	AIS										
1.3	Chemical Name: Synonyms:	Acid Mixture	SECURIT COOCEA	000050										
1.4	Trade Names:		050INT, 620051	, 620058										
1.4	Product Use:	Aluma Black®		All										
1.6	Distributor's Name:		olution for Alum											
1.7	Distributor's Address:		aboratories LLC		1104									
1.7	Emergency Phone:		load, Eden Prai											
	ů ,		+1 (800) 424-		03) 527-3	887 o	r Pois	son C	ontro	I Cen	er +1	(855	281-1	742
1.9	Business Phone / Fax:	+1 (952) 937	7-7900 / +1 (952	2) 937-7979										
			2. H	AZARDS	IDENT	IFIC	ATIC	NC						
2.1	Hazard Identification:	Prepared in a	accordance wit	h UN Globally	Harmoniz	zed sta	ndard	s. Inte	nded t	o com	ply wi	th OSF	1A 29 C	FR 1910.1200
2.2	Label Elements:	DANGER! TO MAY CAUSE AQUATIC LII	HMIS and Austr DXIC IF SWAL E DAMAGE TO FE WITH LONG : Acute Tox. (or	LOWED. MAY O ORGANS T G LASTING E	CAUSE HROUGH FFECTS.	RESPI PROI	LONG	ED OF	R REP	EATE	D EXI	POSUF		
		Causes serious 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): P203 – Obtain, read, and follow all safety instructions before use. P260 – Do not breathe dust or mist. P261 – Avoid breathing dust/fume/gas/mist/vapor/spray. P264 – Wash thoroughly with soap and water after 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 eye/face protection. P301+P316 – IF SWALLOWED: Get emergency medical help immediately. P304+P340 – IF INHALED: Remover person to fresh air and keep comfortable for breathing. P305+P354+P338 – IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P319 – Get medical help if you feel unwell. P321 – Specific treatment see section 4 (first aid) of this SDS or container label. P330 – Rinse mouth. 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 licenses treatment, storage and disposal facility (TSDF).												
		Keep contain					301 -	Dispos	se of o	content	s/cont	ainer t	0	***
2.3	Other Warnings:	In the event of center, who n	of an exposure nay seek advice OF REACH OF	or medical ine from the U.S CHILDREN.	quiry invol manufac	oF). ving th turer, a	is prod	duct, p	lease m this	contac SDS.				poison contro
2.3	Other Warnings:	In the event of center, who n	tment, storage a of an exposure nay seek advice	or medical ine from the U.S CHILDREN.	quiry invol manufac	oF). ving th turer, a	is prod	duct, p	lease m this	contac SDS.	t a ph	ysician	or loca	poison contro
2.3	Other Warnings:	In the event of center, who n	of an exposure nay seek advice DF REACH OF	or medical ine from the U.S CHILDREN.	quiry invol manufac	ving th turer, a	is prod	duct, p	lease m this	contac SDS.	t a ph		or loca	poison contro
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CHEMI WATE	CAL NAME(S) ER SULFATE	In the event of center, who is KEEP OUT C	of an exposure nay seek advice of REACH OF OMPOSIT RTECS No. ZC0110000 QR9600000 ral) 4; Eye Dam.	or medical interpretation of the control of the con	quiry invol . manufact GREDI % 60-100 1-5 1; Chronic	ENT AC PI TLV NE (0.1) Aquatic	is producted in the state of th	duct, pow their	MAT EXPO NOHSO ppm ES- STEL NF NF	CONTACT SDS. ION SURE L ES-PEAK NF NF NF	PEL NE	VAIR (m OSHA ppm STEL NE	g/m³) IDLH NE	
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CHEMI WATE ZINC : SELEI	CAL NAME(S) ER SULFATE NIOUS ACID	In the event of center, who is KEEP OUT C	of an exposure nay seek advice of REACH OF OMPOSIT RTECS No. ZC0110000 QR9600000 ral) 4; Eye Dam.	or medical interpretation of the control of the con	quiry invol . manufact GREDI % 60-100 1-5 1; Chronic 1-5	ENT AC PI TLV NE (0.1) Aquatic (0.2)	INF GIH STEL NE NA 1; H30 NA	est of the last of	MAT EXPO NOHSO ppm ES- STEL NF NF NF NF	CONTACT SDS. ION SURE L ES-PEAK NF NF NF NF H410 NF	PEL NE (1)	ysician NAIR (m OSHA ppm STEL NE NA	g/m³) IDLH NE NA	OTHER
CHEMI WATE ZINC : SELEI	CAL NAME(S) ER SULFATE	In the event of center, who is KEEP OUT CO. CAS No. 7732-18-5 7733-02-0 Acute Tox. (o. 7783-00-8 Acute Tox. (o. 6)	of an exposure nay seek advice of REACH OF OMPOSIT RTECS No. ZC0110000 QR9600000 ral) 4; Eye Dam. VS7175000 ral) 3; Acute Tox.	or medical interpretation of the control of the con	quiry invol. manufact GREDI % 60-100 1-5 1; Chronic 1-5 EE 2; Acute	ENT AC PI TLV NE (0.1) Aquatic (0.2) Aquatic	INF GIH STEL NE NA 1; H30 NA 1; Chro	est of the local control of th	Ilease m this WAT EXPO NOHSO ppm ES- STEL NF NF NF NF NF JAH400 NF Jatic 1;	CONTACT SDS. ION SURE L ES-PEAK NF NF NF H410 NF H301, H	PEL (1) (0.2) (331, F	ysician NAIR (m OSHA ppm STEL NE NA NA NA 1373, H	g/m³) IDLH NE NA NA 400, H41	OTHER
CHEMI WATE ZINC : SELEI	CAL NAME(S) ER SULFATE NIOUS ACID IC SULFATE	In the event of center, who is KEEP OUT CO. 3. Co. CAS No. 7732-18-5 7733-02-0 Acute Tox. (o. 7783-00-8 Acute Tox. (o. 7758-99-8	of an exposure nay seek advice of REACH OF OMPOSIT RTECS No. ZC0110000 QR9600000 ral) 4; Eye Dam. VS7175000 ral) 3; Acute Tox.	or medical interpretation of the control of the con	quiry invol. manufact GREDI % 60-100 1-5 1; Chronic 1-5 EE 2; Acute	ENT AC PI TLV NE (0.1) Aquatic (0.2) Aquatic	INF GIH STEL NE NA 1; H30 NA 1; Chro	est of the local control of th	Ilease m this WAT EXPO NOHSO ppm ES- STEL NF NF NF NF NF JAH400 NF Jatic 1;	CONTACT SDS. ION SURE L ES-PEAK NF NF NF H410 NF H301, H	PEL (1) (0.2) (331, F	ysician NAIR (m OSHA ppm STEL NE NA NA NA 1373, H	g/m³) IDLH NE NA NA 400, H41	OTHER
CHEMI WATE ZINC : SELEI	CAL NAME(S) ER SULFATE NIOUS ACID	In the event of center, who is KEEP OUT CO. CAS No. 7732-18-5 7733-02-0 Acute Tox. (o. 7783-00-8 Acute Tox. (o. 7758-99-8 Acute Tox. 4; 13106-76-8	of an exposure nay seek advice of REACH OF OMPOSIT RTECS No. ZC0110000 QR9600000 ral) 4; Eye Dam. VS7175000 ral) 3; Acute Tox. NA H302	or medical interpretation of the property of the U.S. CHILDREN. ION & INTERPRETATION OF THE PROPERTY OF THE P	quiry invol . manufact GREDI % 60-100 1-5 1; Chronic 1-5 EE 2; Acute 1-5	ENT AC PI TLV NE (0.1) Aquatic (0.2) Aquatic (1) (10)	is produind sho	CORI ES- TWA NF NF 2, H318 (0.2) onic Aqu	Iease m this WAT EXPO NOHSO ppm ES- STEL NF NF NF NF NF NF NF NF NF	CONTACT SDS. ION SURE L ES-PEAK NF NF , H410 NF H301, H	PEL (1) (0.2) (331, F (1)	ysician AIR (m OSHA ppm STEL NE NA NA	IDLH NA NA 400, H41 1000	OTHER
CHEMI WATE ZINC : SELEI CUPR	CAL NAME(S) ER SULFATE NIOUS ACID IC SULFATE	In the event of center, who is KEEP OUT CO. CAS No. 7732-18-5 7733-02-0 Acute Tox. (o. 7783-00-8 Acute Tox. (o. 7758-99-8 Acute Tox. 4; 13106-76-8	of an exposure nay seek advice of REACH OF OMPOSIT RTECS No. ZC0110000 QR9600000 ral) 4; Eye Dam. VS7175000 ral) 3; Acute Tox. NA H302 NA	or medical interpretation of the property of the U.S. CHILDREN. ION & INTERPRETATION OF THE PROPERTY OF THE P	quiry invol . manufact GREDI % 60-100 1-5 1; Chronic 1-5 EE 2; Acute 1-5	ENT AC PI TLV NE (0.1) Aquatic (0.2) Aquatic (1) (10)	is produind sho	CORI ES- TWA NF NF 2, H318 (0.2) onic Aqu	Iease m this WAT EXPO NOHSO ppm ES- STEL NF NF NF NF NF NF NF NF NF NF	CONTACT SDS. ION SURE L ES-PEAK NF NF , H410 NF H301, H	PEL (1) (0.2) (331, F (1)	ysician AIR (m OSHA ppm STEL NE NA NA	IDLH NA NA 400, H41 1000	OTHER



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			4. FIRST AID MEASURES			
4.1	First Aid:	Ingestion:	Do not induce vomiting. Call +1 (855) 281-1742 for emer victim's head lowered (forward) to keep vomit from enter transport if any symptoms noted.			
		<u>Eyes</u> :	Remove and discard contact lenses if worn and flush eyes w Seek immediate medical attention when done rinsing eyes.	0		
		<u>Skin</u> :	Remove contaminated clothing and wash exposed skin with attention if any blistering, swelling or open sores develop.			
		Inhalation:	Move victim to fresh air. Contact emergency medical servic victim loses consciousness.	ces (911) if any difficulty in breathing occurs or i		
4.2	Effects of Exposure:	Eyes:	Severe or permanent eye damage.			
		Skin:	Burns upon direct contact.			
		Ingestion:	Severe burns of mouth, throat, stomach.			
		Inhalation:	Severe irritation or burns in respiratory tract and mucous m	embranes. Possible lung damage.		
4.3	Symptoms of Overexposure:	Eyes:	Redness, burning, irritation, and swelling around eyes	<u> </u>		
		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:		nful if inhaled. Material is extremely destructive to the tissue of harmful if swallowed. Causes burns. May be harmful if abso			
4.5	Chronic Health Effects:	May damage	the nervous system, kidney and/or liver.			
4.6	Target Organs:	Eyes, Skin, N	Nervous System, Kidneys, Liver, Respiratory System, Spleen	, Blood Forming Organs, Bones.		
4.7	Medical Conditions	Pre-existing	dermatitis, other skin conditions, and disorders of the target	HEALTH 3		
	Aggravated by Exposure:	by Exposure: organs (eye:	s, skin, respiratory system, liver, blood-forming organs) or	ELAMMARILITY 0		
			ney function may be more susceptible to the effects of this			
		substance.		PHYSICAL HAZARDS 2		
				PROTECTIVE EQUIPMENT H		
				EYES SKIN LUNGS		
4.8	Notes to Physician:	be considere	contains <u>Selenious Acid</u> and is potentially fatal if ingested even d in asymptomatic or minimally symptomatic patients as dela ailure may occur. 24/7 medical toxicology consultation is availure.	yed toxic effects including pulmonary edema and		
			5. FIREFIGHTING MEASURES			
5.1	Fire & Explosion Hazards:		ole. May react with metals to release hydrogen gas, which car ensity fire; oxidizer. Keep/Store away from clothing/ combusti			
5.2	Extinguishing Methods:	Use fire-extir	nguishing media appropriate for surrounding materials.			
5.3	Firefighting Procedures:	approved or as for surro degradation and/or deriva fire is out.	fire, firefighters should wear appropriate protective equipme equivalent self-contained breathing apparatus (SCBA) and pounding materials. Hazardous decomposition products may produce oxides of carbon, phosphorous, selenium autives. Fire should be fought from a safe distance. Keep confuse water spray to cool fire-exposed surfaces and to protect off from fire control or dilution from entering sewers, drains, way.	protective clothing. Fight fires may be released. Thermal nd/or nitrogen, hydrocarbons tainers cool until well after the t personal. Fight fire upwind.		
			6. ACCIDENTAL RELEASE MEASUR	ES		
6.1	Spills:	(PPE). Use etc.) to preve	ing any spill or leak, individuals involved in spill cleanup must safety glasses or safety goggles and face shield; use gloves ent skin contact.	and other protective clothing (e.g., apron, boots,		
		inert materia Large Spills: release. Iso done with m	Wear appropriate protective equipment including gloves ar I such as vermiculite or sand to soak up the product and place. Keep incompatible materials (e.g., organics such as oil) award immediate hazard area and keep unauthorized personal inimal risk. Wear appropriate protective equipment including much free liquid as possible and collect in acid-resistant collections.	ce into a container for later disposal. ay from spill. Stay upwind and away from spill o nel out of area. Stop spill or release if it can be ing respiratory protection as conditions warrant		



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age & Handling: cial Precautions: sure Limits: (mg/m³) iilation & Engineering rols:	Avoid breathing mists or spray. of the reach of children. Do not expose to heat and flame. Use decontaminate any spills or resi- Use and store in a cool, dry, well- Store in acid-resistant container Keep away from incompatible st Empty containers may retain ha 8. EXPOSURE CON CHEMICAL NAME(S) ZINC SULFATE SELENIOUS ACID CUPRIC SULFATE AMMONIUM MOLYBDATE SODIUM FLUORIDE Use local or general exhaust ve handling of this product. Ensure station). In instances where vapors or sp use only protection authorized b	eat, drink of only in ve dues. -ventilated I s. Keep coubstances (zardous pro TROLS TLV (0.1) (0.2) (1) (10) NA entilation to e appropriat	ocation (ontainers See Secoduct res	when han areas. Kee e.g., local e covered w tion 10). P idues. Kee	dling this p out of exhaust value not into the core ep/Store exhaust value of ep/Store exhaust value of ep/Store exhaust value of ep/Store exhaust value of exh	product. the reach entilation, n use. Av ntainers from	Wash the of children of childr	oroughly en. Imm ay from h eratures cal dama	after had a above age.	andling. Do n y clean-up ar I direct sunligh 40°C (120°F
sure Limits: (mg/m³)	expose to heat and flame. Use decontaminate any spills or residence in a cool, dry, well. Store in acid-resistant container Keep away from incompatible state in acid-resistant container Keep away from incompatible state in acid-resistant container Keep away from incompatible state in acid-resistant containers may retain hat a container state in acid-resistant in acid-resident i	TROLS TLV (0.1) (0.2) (10) NA entilation to eappropriate	ocation (ontainers See Sec oduct res 8 PE GIH STEL NA NA NA NA NA NA effective	e.g., local e covered witton 10). Pidues. Kee ERSON ES-TWA NF (0.2)	exhaust value not into the correct corresponding of the corresponding of the correct corresponding of the correct corresponding of the correct	entilation, n use. Av ntainers fro away from	of childre fans) awa roid temp om physic clothing	en. Imm ay from h eratures cal dama / combus	eat and above	y clean-up ar I direct sunligh 40 °C (120 °F
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sure Limits: (mg/m³) ilation & Engineering rols:	8. EXPOSURE CON CHEMICAL NAME(S) ZINC SULFATE SELENIOUS ACID CUPRIC SULFATE AMMONIUM MOLYBDATE SODIUM FLUORIDE Use local or general exhaust ve handling of this product. Ensure station). In instances where vapors or sp	TROLS TLV (0.1) (0.2) (1) (10) NA entilation to e appropriate	STEL NA NA NA NA OFFIctive	ERSON ES-TWA NF (0.2)	AL PF NOHSC ES- STEL NF	away from	clothing/	combus /		aterials.
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(mg/m³) ilation & Engineering rols:	CHEMICAL NAME(S) ZINC SULFATE SELENIOUS ACID CUPRIC SULFATE AMMONIUM MOLYBDATE SODIUM FLUORIDE Use local or general exhaust vehandling of this product. Ensure station). In instances where vapors or sp	TLV (0.1) (0.2) (1) (10) NA entilation to e appropriate	STEL NA NA NA NA NA NA ONA ONA ONA ONA ONA O	ES-TWA NF (0.2)	NOHSC ES- STEL NF	ES-	HON	OSHA		
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rols:	Use local or general exhaust ve handling of this product. Ensure station). In instances where vapors or sp	entilation to appropriat	effective	NF	NF	NF	NA	NA	NA	
rols:	handling of this product. Ensure station). In instances where vapors or sp	appropriat		NF	NF	NF	NA	NA	250	
	station). In instances where vapors or sp		a dacont	ly remove	and prev	ent buildu	ip of vapo	ors or mi	st gene	rated from th
piratory Protection:	In instances where vapors or spuse only protection authorized b	ravs of this	e deconi	amination	equipmer	nt is availa	ıble (e.g.,	sink, saf	fety sho	wer, eye-was
	use only protection authorized b		product	are genera	ated, and	respirator	y protect	ion is ne	eded,	
		y 29 CFR §	1910.13	4, applicab	le Ú.S. S	tate regula	átions, or	the Can	adian	
				ards of Canadian Provinces, EC member States, or						86
	Australia.									
Protection:	Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended.									
d Protection:	Wear protective, chemical-resistant gloves (e.g., neoprene) when using or handling this product.									
/ Protection:	A chemical resistant apron and product.	d/or protect	ive cloth	ing are re	commend	ded when	handling	or usino	g this	
	9. PHYSICA	1 8 CH	EMIC	AL DD	JDED	TIEC				
earance:		L & OII		<u> </u>		IILO				
r:	Clear, blue liquid									
Threshold:	Odorless									
Tillesiloid.	NA 1.0									
ing Point/Freezing Point:	1.8									
<u> </u>	NA									
ll Boiling Point/Boiling ge:	> 100 °C (> 212 °F)									
hpoint:	NA									
er/Lower Flammability	NA									
s:										
or Pressure:	NA									
or Density:	< 1.0 (air = 1.0)									
tive Density:	1.051									
•	Complete (water)									
bility:	NA									
•	NA									
bility:	NA									
bility: tion Coefficient (log P _{ow}):										
bility: tion Coefficient (log P _{ow}): ignition Temperature:		ther = 1 0)								
bility: tion Coefficient (log P _{ow}): ignition Temperature: omposition Temperature:	NA									
bility: tion Coefficient (log P _{ow}): ignition Temperature: pmposition Temperature: psity:			/ O D	EACTI	VITY					
bility: tion Coefficient (log P _{ow}): ignition Temperature: pmposition Temperature: psity:	NA Evaporation Rate: < 1.0 (ethyl e	ABILIT'	<u> Y & R</u>	<u>EACTI</u>						
bility: tion Coefficient (log P _{ow}): ignition Temperature: pmposition Temperature: psity:	NA Evaporation Rate: < 1.0 (ethyl e	ABILIT	Y & R	LACII						
bility: tion Coefficient (log P _{ow}): ignition Temperature: pmposition Temperature: posity: or Information:	NA Evaporation Rate: < 1.0 (ethyl ethyl et	rong reduc	ing ager	its can pr	oduce or					
bility: tion Coefficient (log P _{ow}): ignition Temperature: composition Temperature: cosity: ir Information:	NA Evaporation Rate: < 1.0 (ethyl ethyl et	rong reduc	ing ager	its can pr	oduce or					<u>. </u>
bility: tion Coefficient (log P _{ow}): ignition Temperature: pmposition Temperature: posity: pr Information: lility: ardous Decomposition ucts:	NA Evaporation Rate: < 1.0 (ethyl ethyl et	rong reduc	ing ager	its can pr	oduce or					<u>·</u>
bilit tior ign omp	•		40 0740017	40 STADILITY & D	10. STABILITY & REACTI	10. STABILITY & REACTIVITY			Stable at normal temperatures.	Stable at normal temperatures. Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selections.



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		11. T	OXICOLOGI	CAL INFORM	MATION		
11.1	Routes of Entry:	Inhalation:		Absorption:	YES	Ingestion:	NO
11.2	Toxicity Data:	Sodium Fluoride: LD ₅₀ (1			
11.3	Acute Toxicity:	See Section 4.4	oral, raty oz mg/k	j.			
11.4	Chronic Toxicity:	See Section 4.5					
11.5	Suspected Carcinogen:	Components in this pro	duct are listed by IA	RC as Group 3 (Not	classifiable as to it	s carcinogenicity to b	numans)
11.6	Reproductive Toxicity:	This product is not repo				o daroniogornoity to i	idilidilo)
	Mutagenicity:	This product is not repo					
	Embryotoxicity:	This product is not repo					
	Teratogenicity:	This product is not repo					
	Reproductive Toxicity:	This product is not repo	rted to cause repro	ductive effects in hu	mans.		
11.7	Irritancy of Product:	See Section 4.2					
11.8	Biological Exposure Indices:	NE					
11.9	Physician Recommendations:	Treat symptomatically.					
		12.	ECOLOGIC	AL INFORMA	ATION		
12.1	Environmental Stability:	There are no specific d					
12.2	Effects on Plants & Animals:	There are no specific d					
12.3	Effects on Aquatic Life:	Very toxic to aquatic life					
	'	Very toxic to aquatic int	e with long lasting el	iecis.			
		13.	DISPOSAL (CONSIDERA	TIONS		
13.1	Waste Disposal:	Review current local, s disposal method for the federal laws and regula disposal of hazardous	e ingredients listed in ations. Contact the a	n Section 2. Any dis appropriate agency	posal practice must for specific informa	t be in compliance w tion. Treatment, trar	ith local, state, and
13.2	Special Considerations:	U.S. EPA Hazardous V					
desc	riptive information may b	nber, proper shipping nar e required by 49 CFR, IA	TA/ICAO, IMDG and	division, packing gro d the CTDGR.	up) is shown for ea		ation. Additional
14.1	49 CFR (GND):	UN3264, CORROSIVE I QTY (IP VOL ≤ 5.0 L)			·	,	
14.2	IATA (AIR):	UN3264, CORROSIVE I QTY (IP VOL ≤ 0.5 L)				•	
14.3	IMDG (OCN):	UN3264, CORROSIVE I QTY (IP VOL ≤ 5.0 L)	LIQUIDS, ACIDIC, II	NORGANIC, N.O.S.	(SELENIOUS ACIE	D), 8, III, LTD	
14.4	TDGR (Canadian GND):	UN3264, CORROSIVE L QTY (IP VOL ≤ 5.0 L)	LIQUIDS, ACIDIC, II	NORGANIC, N.O.S.	(SELENIOUS ACIE	D), 8, III, LTD	CORROSIVE
14.5	ADR/RID (EU):	UN3264, CORROSIVE L QTY (IP VOL ≤ 5.0 L)	LIQUIDS, ACIDIC, II	NORGANIC, N.O.S.	(SELENIOUS ACIE	D), 8, III, LTD	8
14.6	SCT (MEXICO):	UN3264, LIQUIDOS, CO CANTIDAD LIMITADA (O, INORGANICO, N	.E.P. (ACIDO SELE	ENIO), 8, III,	$\langle \gamma \rangle$
14.7	ADGR (AUS):	UN3264, CORROSIVE I QTY (IP VOL ≤ 5.0 L)	LIQUIDS, ACIDIC, II	NORGANIC, N.O.S.	(SELENIOUS ACIE	D), 8, III, LTD	
		15.	REGULATO	RY INFORM	ATION		
15.1	SARA Reporting Requirements:	This product contains reporting requirements	Selenious Acid, Cu			subject to SARA Ti	tle III, Section 313
15.2	SARA TPQ:	NA NA					
15.3	TSCA Inventory Status:	The components of th	is product are listed	on the TSCA Inven	tory		
15.4	CERCLA Reportable Quantity:	Selenious Acid: 10 lbs					
15.5	Other Federal Requirements:	NA	, (-1.0-1 kg), <u>Ouplic S</u>	<u>unate</u> . 10 103 (4.04 1	שי/		
15.6	Other Canadian Regulations:	This product has been all of the information DSL/NDSL. None of WHMIS Class E (Corr Toxic Effects).	required by the Cl the components of	PR. The compone this product are lis	nts of this product ted on the Priorities	are listed on the s Substances List.	



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		15. REGULATORY INFO	RMATION – cont'd
15.7	State Regulatory Information:	Substances List (MA), Minnesota Hazardous Sub- Hazardous Substances List (WI). Zinc Sulfate is found on the following state criter Sodium Fluoride is found on the following state of No other ingredients in this product, present in a criteria lists: California Proposition 65 (CA65), Dr. (FL), Massachusetts Hazardous Substances List (MN), New Jersey Right-to-Know Right-to-Know List (PA), Washington Permissible	criteria lists: FL, MA, and PA. concentration of 1.0% or greater, are listed on any of the following state elaware Air Quality Management List (DE), Florida Toxic Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous ow List (NJ), New York Hazardous Substances List (NY), Pennsylvania e Exposures List (WA), Wisconsin Hazardous Substances List (WI). This to the State of California to cause cancer or other reproductive harm. For
15.8	Other Requirements:		lists: Australia - AICS, China – IECSC, Europe – ELINCS/EINEC,
		16. OTHER INFO	DRMATION
16.1	Other Information:	DANGER! TOXIC IF SWALLOWED. MAY CAUSE MAY CAUSE DAMAGE TO ORGANS THROU AQUATIC LIFE WITH LONG LASTING EFFEC breathe dust or mist. Avoid breathing dust/fume/ga Do not eat, drink or smoke when using this prodenvironment. Wear eye/face protection. IF SW Remover person to fresh air and keep comfortal minutes. Remove contact lenses, if present and extreatment see section 4 (first aid) of this SDS or	SE RESPIRATORY IRRITATION. CAUSES SERIOUS EYE DAMAGE. GH PROLONGED OR REPEATED EXPOSURE. VERY TOXIC TO TS. Obtain, read, and follow all safety instructions before use. Do not as/mist/vapor/spray. Wash thoroughly with soap and water after handling. Let. Use only outdoors or in a well-ventilated area. Avoid release to the ALLOWED: Get emergency medical help immediately. IF INHALED: ole for breathing. IF IN EYES: Immediately rinse with water for several asy to do. Continue rinsing. Get medical help if you feel unwell. Specific container label. Rinse mouth. Collect spillage. Store in a well-ventilated up. KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.
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 containsuitability or completeness is not guaranteed an 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. The 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

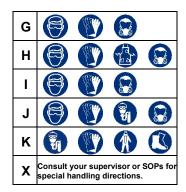
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α		
В		
С		
D		
Ε		
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

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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

HAZARD RATINGS:

0	Minimal Hazard	FLAMMABILITY
1	Slight Hazard	. =
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/ ~~~ ~~ ~
₩	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			
TD _{lo}	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	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)				

0	(4)	③	(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:

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