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

1.1	D 1 111													
	Product Name:	MICROL	OK MZN											
1.2	Chemical Name:	Acid Mixture												
.3	Synonyms:	89051, 89058	3											
.4	Trade Names:	Microlok MZN	J											
.5	Product Use:		ate Solution for											
.6	Distributor's Name:		aboratories LLC											
.7	Distributor's Address:		toad, Eden Prai											
.8	Emergency Phone:		+1 (800) 424-)3) 527-3	8887 oi	r Pois	on Co	ontro	l Cent	er +1	(855)	281-1	742
.9	Business Phone / Fax:	+1 (952) 937	'-7900 / +1 (952	2) 937-7979										
			2. H/	AZARDS	IDENT	IFIC	ATIC)N						
2.1	Hazard Identification:	Canadian Who DANGER! MEYE DAMAGEFFECTS.	accordance wit HMIS and Austr MAY INTENSIF BE. MAY CAUS	alian Work Hea Y FIRE; OXID SE RESPIRAT	alth and S IZER. HA ORY IRRI	afety. ARMFU ITATIO	L IF S N. VE	WALL RY TO	.OWE	D. CAL	JSES	SEVE	RE SKII	N BURNS AN
.2	Label Elements:	Classification	: Ox. Liq. 2, Sk	in Corr. 1B, ST	OT SE 3,	Aquation	c Chro	nic 1						
		eye damage. H335 – May cause respiratory irritation. H410 – Very toxic to aquatic life with long lasting effects. Precautionary Statements (P): P203 – Obtain, read, and follow all safety instructions before use. P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 – Keep away from clothing and other combustible materials. P260 – Do not breathe dust or mist. P261 – Avoid breathing dust/fume/gas/mist/vapor/spray. P264 – Wash with soap and water thoroughly after handling. P271 – Use only outdoors or in well-ventilated area. P273 – Avoid release to the environment. P280 – Wear protective gloves/protective clothing/ eye protection/ face protection/ hearing 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. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P316 – Get emergency medical help immediately. P321 – Specific treatment see section 4 (first aid) of this SDS or container label. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P370+P378 – In case of fire use fire-extinguishing media appropriate for surrounding materials. 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). In the event of an exposure or medical inquiry involving this product, please contact a physician or local poison or center, who may seek advice from the U.S. manufacturer, and show them this SDS. KEEP OUT OF REACH OF CHILDREN.												
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				4 EID	CT AII		CHDE	6				
	T =:	I I B	NO NOT IND	4. FIR					4740 41			
4.1	First Aid:	Eyes: If ey a Skin: R	ocal emerger comiting occu f product gets eyelid(s) open n physician or Remove conta kin reaction v properly clean	respondency telephores spontanes in the eyes to ensure commergency aminated clowersens, cored.	ne numbously, kees, flush eycomplete room important and the photostatic aphone in at once	per for assept victim's eyes thorou flushing. Immediately discount wash affinysician immee. Under e	sistance as head low aghly with a lift the eyes fected are nmediately	nd instructivered (forwatcopious amous or face be as with soate. Do not we	ons. Seek rd) to reduct ounts of wa come swoll p and water ar contamin	nearest Poisc immediate m se the risk of as ter for at least en during or for r. If discomfor ated clothing u	edical attenti spiration. 15 minutes, I illowing use, o t persists and intil after it ha	on. If nolding consult /or the s been
4.2	Effects of Exposure:	Eyes:	Severe or p									
		Skin: Ingestion: Inhalation:	Burns upon Severe burn	direct conta	act. , throat, s	stomach.	ct and mu	cous memb	ranes. Pos	sible lung dam	age.	
4.3	Symptoms of Overexposure:	Eyes: Skin: Ingestion: Inhalation:	Redness, b Redness, b Nausea, vo Coughing, v	urning, itchi miting, seve	ng, rash, ere abdon	blistering binal pain.	of skin.		nbranes, di	fficulty breathir	ng.	
4.4	Acute Health Effects:	tract. May be	e harmful if sv	vallowed. Ca	auses bu	ırns. May b	ctive to the be harmful	tissue of the if absorbed	ne mucous I through sk	membranes a in.	nd upper resp	oirator
4.5	Chronic Health Effects: Target Organs:	May damage					(atains in)	عاجا مم	a rmal	no h		
4.7	Medical Conditions Aggravated by Exposure:	Eyes, skin, no Pre-existing organs (eyes	dermatitis, c	ther skin c	onditions	s, and disc	orders of	the target				3
		be more susc					Kiuriey iui	iction may	FLAMM/ PHYSIC	<mark>ABILITY</mark> AL HAZARD	S	0 1
									PROTEC	TIVE EQUIF	MENT	Н
									EYES	SKIN	LUNGS	 ''
			5	EIDEE								
					IGHTI	ING MI	FASH	?⊨¢				
5.1	Fire & Explosion Hazards:	Non-flammab					EASUF		m explosive	e mixtures with		
	·	air. May inter	ble. May read ensity fire; oxi	t with metal dizer.	s to relea	ase hydrog	gen gas, w	hich can for	m explosive	e mixtures with		
5.2	Extinguishing Methods:	air. May inter	ble. May reac ensity fire; oxi nguishing me	t with metal dizer. dia appropri	s to relea ate for su	ase hydrog urrounding	gen gas, w g materials	hich can for	•			
	·	air. May intel Use fire-extin As with any approved or of for surroundin may produce Fire should be	ble. May reacensity fire; oxionguishing me fire, firefighte equivalent seing materials e oxides of cape fought from I fire-exposed	t with metal- dizer. dia appropri ers should v lf-contained . Hazardou rbon, phospl a safe dista I surfaces a	ate for su wear app I breathin s decomp horous, s ance. Keend to pro	urrounding propriate p ng apparati position proselenium a pep contain tect perso	gen gas, w g materials protective of us (SCBA) roducts m nd/or nitro ners cool u onal. Fight	hich can for equipment i) and protec ay be relead gen, hydroc ntil well afte t fire upwind	ncluding a tive clothing sed. Therm arbons and r the fire is o	MSHA/NIOSH J. Fight fires as al degradation for derivatives. but. Use water runoff from fire	300	0
5.2	Extinguishing Methods:	air. May intel Use fire-extin As with any approved or of for surroundi may produce Fire should b spray to cool	ble. May reacensity fire; oxinguishing mefire, firefighte equivalent seing materials exides of case fought from I fire-exposedution from en	t with metal- dizer. dia appropri- ers should v If-contained. Hazardou -bon, phospi a a safe distal surfaces a tering sewe	ate for su wear app I breathin s decomp horous, s ance. Kee nd to pro rs, drains	urrounding propriate p ng apparati position pi selenium a eep contain otect perso s, drinking	gen gas, w g materials protective of us (SCBA) roducts m nd/or nitro ners cool u onal. Fight water sup	hich can for equipment i) and protec ay be relead gen, hydroc ntil well afte t fire upwinc ply, or any i	ncluding a tive clothing sed. Therm arbons and, r the fire is o I. Prevent i natural wate	MSHA/NIOSH J. Fight fires as al degradation for derivatives. but. Use water runoff from fire	300	0
5.2	Extinguishing Methods:	air. May intel Use fire-extin As with any approved or of for surrounding produce Fire should be spray to cool control or diluted. Before cleani (PPE). Use etc.) to preve Small Spills: material such	ble. May reacensity fire; oxinguishing me fire, firefighte equivalent seing materials e oxides of case fought from I fire-exposed ution from en	t with metal dizer. dia appropri ers should valf-contained. Hazardou rbon, phospin a safe distal surfaces a tering sewer. CIDENT or leak, indiversity or safety act. riate protectite or sand to the safety and the safety act.	ate for su wear app I breathin s decomp horous, s ance. Keend to pro rs, drains TAL RI viduals in goggles tive equip to soak up	urrounding propriate p ng apparati position pi selenium a sep contain otect perso s, drinking ELEAS avolved in s and face s pment incl p the prod	gen gas, we materials protective of us (SCBA) roducts moder nitro hers cool uponal. Fight water suponals shield; use uding glovaluct and pl	equipment is and protect ay be released at fire upwinciply, or any in the released and protection and protection and protection and protection and protection are released and protection are re	ncluding a tive clothing sed. Therm arbons and, r the fire is of t	MSHA/NIOSH g. Fight fires as al degradation /or derivatives. but. Use water runoff from fire erway. ate Personal P ective clothing /ear. Use a no later disposal.	rotective Equ (e.g., apron,	boots e, iner
5.2	Extinguishing Methods: Firefighting Procedures:	air. May intel Use fire-extin As with any approved or of for surrounding may produce Fire should be spray to cool control or diluted Before cleani (PPE). Use etc.) to preve small Spills: material such Large Spills: release. Isol with minimal	ble. May reacensity fire; oxinguishing me fire, firefighte equivalent seing materials exides of case fought from I fire-exposed ution from en fire any spill of safety glasse ent skin contact wear approph as vermicules. Keep incontact immedia I risk. Wear aquid as possik	t with metal dizer. dia appropri ers should valf-contained. Hazardou rbon, phospin a safe distated surfaces a terring sewer CIDENT or leak, individual rotte. The protectite or sand the protect appropriate pole and colle	ate for su wear app I breathin s decomp horous, s ance. Keend to pro rs, drains TAL RI viduals in goggles tive equip to soak up terials (e. ea and ke protective ct in acid-	urrounding propriate p ng apparate position propriate personation potect personation provided in second in	gen gas, we materials protective of us (SCBA) roducts mendor nitro ners cool uponal. Fight water suponal shield; use uding glovaluct and places such as thorized pent includin	equipment is and protect ay be released gen, hydrocontil well after the fire upwinciply, or any is a supply, or any is a supply. ASURE up must we elegloves and protect ace into a control of grespirator	ncluding a tive clothing sed. Therm arbons and r the fire is of th	MSHA/NIOSH g. Fight fires as al degradation /or derivatives. but. Use water runoff from fire erway. ate Personal P ective clothing /ear. Use a no	rotective Equ (e.g., apron, n-combustible ad away from ase if it can be warrant. Rec	boots, e, inert spill of e done over as
5.2	Extinguishing Methods: Firefighting Procedures:	air. May intel Use fire-extin As with any approved or of for surrounding produce Fire should be spray to cool control or diluted Before cleani (PPE). Use etc.) to prevest material such Large Spills: meterse. Iso with minimal much free liq directly into a	ble. May reacensity fire; oxinguishing me fire, firefight equivalent seing materials exides of case fought from I fire-exposed ution from en fire safety glasse ent skin conta Wear approph as vermiculate immedia I risk. Wear a guid as possiba sewer or su	t with metal dizer. dia appropri ers should valf-contained. Hazardou rbon, phospin a safe distat surfaces a terring sewe CIDENT CID	ate for su wear app I breathin s decomp horous, s ance. Keen nd to pro rs, drains TAL RI viduals in goggles tive equip to soak up terials (e. tea and ke protective ct in acid- s.	urrounding propriate pag apparate position proceeding a personation proceder personation proceder personation proceder personation proceder personation proceder personation proceder p	gen gas, we materials protective of us (SCBA) roducts mendor nitro ners cool unders supposed by the containing glow luct and pluct and p	equipment is and protect ay be released gen, hydrocontil well after the upwinciply, or any in the second great and protect ace into a contil second great and great ace into a contil second great ace in the second	ncluding a tive clothing sed. Therm arbons and r the fire is of th	MSHA/NIOSH p. Fight fires as al degradation for derivatives. but. Use water runoff from fire erway. ate Personal P ective clothing frear. Use a no later disposal. Stay upwind ar top spill or rele as conditions	rotective Equ (e.g., apron, n-combustible ad away from ase if it can be warrant. Rec	boots e, iner spill o e done over as
5.2	Extinguishing Methods: Firefighting Procedures:	air. May intel Use fire-extin As with any approved or of for surrounding produce Fire should be spray to cool control or diluted by the street of the street	ble. May reacensity fire; oxinguishing me fire, firefighte equivalent seing materials exides of case fought from I fire-exposed ution from en fire equivalent safety glasse ent skin contains wear appropriate immedial risk. Wear appropriate immedial risk. Wear aguid as possible a sewer or sufficient. Do relame. Use or large interest of the fire exposed in the firefield of the fir	t with metal dizer. dia appropri ers should valf-contained. Hazardou rbon, phospin a safe distated surfaces a terring sewer contained research to the service of the safety and collect and collect research to the safety and co	ate for su wear app I breathin s decomp horous, s ance. Keen nd to pro rs, drains FAL RI viduals in goggles tive equiptors osoak up terials (e. ea and ke protective ct in acid- s.	urrounding propriate p ng apparate position propriate per selenium a sep contain otect perso s, drinking ELEAS nvolved in s and face s pment incl p the prod c, organic seep unaut e equipment resistant DRAGE I skin contake when ha	gen gas, we gen ga	equipment is and protective es product. Name of the control of the	ncluding a tive clothing sed. Therm arbons and r the fire is of th	MSHA/NIOSH p. Fight fires as al degradation for derivatives. but. Use water runoff from fire erway. ate Personal P ective clothing frear. Use a no later disposal. Stay upwind ar top spill or rele as conditions	rotective Equ (e.g., apron, n-combustible and away from ase if it can be warrant. Recoild discharging product. Keeldling. Do not	spill of e done over a g liquid
5.2 5.3 6.1	Extinguishing Methods: Firefighting Procedures: Spills:	air. May intel Use fire-extin As with any approved or of for surrounding produce Fire should be spray to cool control or diluted by the street of the street	ble. May reacensity fire; oxinguishing me fire, firefight equivalent seing materials exides of case fought from I fire-exposed ution from en fire exposed in a vermiculate immedial risk. Wear aquid as possible a sewer or sufficient for schildren. Do residues.	t with metal dizer. dia appropries should valif-contained. Hazardourbon, phospin a safe distated surfaces a tering sewe. CIDENT Or leak, indives or safety loct. In the protectite or sand to the patible mate hazard ar appropriate pole and colleginace water. DLING of spray. Avoid not eat, drinkly in ventilatery, well-vent tainers. Keeps spound of the propersion of the	ate for su wear app I breathin s decomp horous, s ance. Ken nd to pro rs, drains Viduals in goggles tive equip to soak up terials (e. rea and ken protective ct in acid- s.	urrounding propriate p ng apparatu position prosition prosition prosition prosition protect persons, drinking ELEAS and face sand face equipment probability and probability sand face sand face sand face and face sand	gen gas, we materials protective of us (SCBA) roducts mendor nitro ners cool uponal. Fight water suponal. Fight water suponal shield; use uding glove luct and places such as thorized pent including container. EINFO act. Wear and ling this it of the result of the result when it includes the container of the result of the result in the container of the container	equipment is and protective es so product. Nach of children use.	ncluding a tive clothing sed. Therm arbons and r the fire is of the fire is of a rappropriate dother protective eyew ontainer for from spill. So y protection eent to pick to the fire is of area. So y protection eent to pick to the fire is of area. So y protection eent to pick to the fire is of area. So y protection eent to pick to the fire is of area. Immediation, fans) a void tempe	MSHA/NIOSH p. Fight fires as al degradation /or derivatives. but. Use water runoff from fire erway. ate Personal P ective clothing //ear. Use a no later disposal. Stay upwind ar top spill or rele as conditions up residue. Avo //hen handling ughly after han- liately clean-up away from hea eratures above	rotective Equ (e.g., apron, nn-combustible and away from ase if it can be warrant. Recoid discharging product. Keel dling. Do not o and decontant	spill of e done over as g liquid



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8. EXPOSURE CONTROLS & PERSONAL PROTECTION OTHER OSHA 8 1 Exposure Limits: ppm (mg/m³) CHEMICAL NAME(S) TLV STEL ES-TWA STEL PEAK PEL STEL IDLH PHOSPHORIC ACID (1) (3) NF NF NF NA NA 1000 NITRIC ACID 52 NF NA 25 Ventilation & Engineering 8.2 Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the Controls: handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash Respiratory Protection: 8.3 In instances where vapors or sprays of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia. 8.4 Eye Protection: Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended. 8.5 Hand Protection: Wear protective, chemical-resistant gloves (e.g., neoprene) when using or handling this product. Body Protection: 8.6 A chemical resistant apron and/or protective clothing are recommended when handling or using this product 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Appearance: Pale green liquid 9.2 Odor: Characteristic odor Odor Threshold: 9.3 NA 9.4 pH: < 1.0 Melting Point/Freezing 9.5 NA Point: 9.6 Initial Boiling Point/Boiling > 100 °C (> 212 °F) Range: 9.7 Flashpoint: NA Upper/Lower Flammability 9.8 NA Limits: 9.9 Vapor Pressure: NA 9.10 Vapor Density: < 1.0 (air = 1.0)9.11 Relative Density: 1.59 Solubility 9.12 Complete (water) Partition Coefficient (log 9.13 NA 9 14 Autoignition Temperature: NA 9.15 Decomposition NA Temperature: 9.16 Viscosity: NA 9 17 Other Information: Evaporation Rate: < 1.0 (ethyl ether = 1.0) 10. STABILITY & REACTIVITY Stability: 10.1 Stable at normal temperatures. Hazardous Decomposition 10.2 Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenide. Thermal Products: decomposition may produce selenium, nitrogen, phosphoric and copper oxides 10.3 Hazardous Will not occur. Polymerization: 10.4 Conditions to Avoid: Excessive heat, shock, friction Incompatible Substances: 10.5 Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustible organic materials, most metals. 11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES 11.1 Routes of Entry: Ingestion: NO Toxicity Data Ammonium Nitrate: LD₅₀ (oral, rat) = 2217 mg/kg; Phosphoric Acid: LD₅₀ (oral, rat) = 1530 mg/kg Acute Toxicity: See Section 4.4 11.4 Chronic Toxicity See Section 4.5 11.5 Suspected Carcinogen Components in this product are listed by IARC as Group 3 (Not classifiable as to its carcinogenicity to humans) 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 contains nickel sulfate, which is reported to cause teratogenic effects in humans. Reproductive Toxicity: This product is not reported to cause reproductive effects in humans. Irritancy of Product: 11.7 See Section 4.2



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11.8	Biological Exposure	11. TOXICOLOGICAL INFORMATION – cont'd
11.9	Indices: Physician	
1.9	Recommendations:	Treat symptomatically.
		12. ECOLOGICAL INFORMATION
2.1	Environmental Stability:	There are no specific data available for this product.
12.2	Effects on Plants &	There are no specific data available for this product.
12.3	Animals: Effects on Aquatic Life:	Very toxic to aquatic life with long lasting effects. Phosphoric Acid: EC ₅₀ (Daphnia magna, 12h) = 4.6 mg/L
	L	13. DISPOSAL CONSIDERATIONS
13.1	Waste Disposal:	Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriat disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, an federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage an 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)
		44 TRANSPORTATION INFORMATION
_ .		14. TRANSPORTATION INFORMATION
ine	pasic description (ID Nurintive information may	umber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.
14.1	49 CFR (GND):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, NITRIC
	, ,	ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
14.2	IATA (AIR):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, NITRIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L)
14.3	IMDG (OCN):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, NITRIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
14.4	TDGR (Canadian GND):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, NITRIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
14.5	ADR/RID (EU):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, NITRIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
14.6	SCT (MEXICO):	UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO PHOSPHORIC, ACIDO NITRIC), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)
14.7	ADGR (AUS):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, NITRIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
		15. REGULATORY INFORMATION
15.1	SARA Reporting Requirement	
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 Quantit	
15.5	Other Federal Requirements	7 Milita 7 Iola 1,000 150 (404 kg), 1 1005 150 (404 kg)
15.6	Other Canadian Regulations	
15.7	State Regulatory Information	Nitric Acid is found on the following state criteria lists: FL, MA, MN, New Jersey Right-to-Know List (NJ), PA, an Washington Permissible Exposures List (WA). Phosphoric Acid is found on the following state criteria lists: FL, MA, MN, PA. Ammonium Nitrate is found on the following state criteria list: FL, MA, NJ and PA No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state.
		criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substance List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardou Substances List (MN), New York Hazardous Substances List (NY), Pennsylvan Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). The product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to www.P65Warnings.ca.gov .
15.8	Other Requirements:	This product is found on the following inventory lists: Australia - AICS, China – IECSC, Europe – ELINCS/EINEC,



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		16. OTHER INF	ORMATION			
16.1	Other Information:	DANGER! MAY INTENSIFY FIRE; OXIDIZER. HARMFUL IF SWALLOWED. CAUSES SEVERE SKIN BUF EYE DAMAGE. MAY CAUSE RESPIRATORY IRRITATION. VERY TOXIC TO AQUATIC LIFE WITH LONG EFFECTS. Obtain, read, and follow all safety instructions before use. Keep away from heat, hot surfaces, spat flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Do not dust or mist. Avoid breathing dust/fume/gas/mist/vapor/spray. Wash with soap and water thoroughly after hand only outdoors or in well-ventilated area. Avoid release to the environment. Wear protective gloves/protective cloprotection/ face protection/ hearing protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF a Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. Wash control clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get elemedical help immediately. Specific treatment see section 4 (first aid) of this SDS or container label. IF IN EYE cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. fire use fire-extinguishing media appropriate for surrounding materials. Collect spillage. Store in a well-ventilat Keep container tightly closed. Store locked 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 Technologies' knowledge, the information conta suitability or completeness is not guaranteed at The information contained herein relates only to	OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other applicability to this product. To the best of ShipMate's & Birchwood ained herein is reliable and accurate as of this date; however, accuracy, and 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

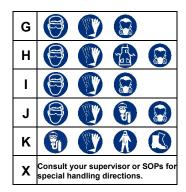
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С			
D			
Е			
F		H.	





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

FLAMMABILI	TY 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 🔪
OX	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

TOXICOLOGICAL INFORMATION:

LD ₅₀	ethal 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 _{Io} Lowest dose to cause a symptom				
TCLo	Lowest concentration to cause a symptom			
TD _{io} , LD _{io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects			
TC, 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	CA U.S. Toxic Substance Control Act			
EU	European Union (European Union Directive 67/548/EEC)			
WGK	Wassergefährdungsklassen (German Water Hazard Class)			

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	(A)	(2)	(4)	\odot	®		Ř
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			\limits		(
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment