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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards

SDS Revision: 3.0

SDS Revision Date: 2/13/2022

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1.1	Product Name:		PRODU	CI & COI	VIPAIN	I IDEN	IIFIC	AII	JIN					
1.0			MP® MKP											
1.2	Chemical Name:		ate/Sodium Hydi											
1.4	Synonyms: Trade Names:		151, 611158, 61	11190										
1.4	Product Use:	Tru Temp® MKP Blackener												
	_		blackening iron a											
1.6	Distributor's Name:		aboratories LLC											
1.7	Distributor's Address:	7900 Fuller Road, Eden Prairie, MN 55344 USA												
1.8	Emergency Phone:	ChemTrec +1 (800) 424-9300 / +1 (703) 527-3887 or Poison Control Center +1 (855) 281-1742												
1.9	Business Phone / Fax:	+1 (952) 93	7-7900 / +1 (952	2) 937-7979										
			2. H	IAZARDS	IDEN	TIFICA	TION							
2.1	Hazard Identification:	Prepared in	accordance wit	th UN Globally	Harmon	ized standa	rds. In	tended	to co	v vlam	vith OS	SHA 29	9 CFR 1910	.1200
			HMIS and Austr							. ,				
		DANGER!	CAUSES SEVE	RE SKIN BUR	NS AND	EYE DAMA	GE.							
		Classification	n: Skin Corr. 1A											
2.2	Label Elements:	Hazard State	ements (H): H31	4 – Causes se	vere skin	burns and	eye dan	nage.						
			<u>ry Statements</u> (F						h hand	s and e	expose	d		
		skin areas v	with soap and w	varm water the	roughly a	after handlir	ng. P280	0 - We	ar prof	tective	glove	s/		
			lothing/eye prot										_	
			NOT induce vo											
			mediately rinse e. P304+P340 -										<u>√</u> ₩	>
			e. F304+F340 - 316 – Get medio											
			or this containe											
			utes. Remove co						,					
			2501 - Dispose o											
		(TSDF).	•					•	J	•		, l		
2.3	Other Warnings:	In the event of	of an exposure o	r medical inqui	ry involvir	ng this produ	ıct, plea	se con	tact a p	hysici	an or lo	ocal poi	ison control	cente
		who may see	ek advice from tl	he U.S. manufa	acturer, a	nd show the	m this S	SDS. I	KEEP (OÚT C	F REA	CH O	F CHILDREI	N.
		3. (COMPOSI	TION & IN	IGRE	DIENT I	NFOF	RMA	10IT.	V				
		3. (COMPOSI	TION & IN	IGRE	DIENT I	NFOF	EXP	OSURE		N AIR (n	ng/m³)	_	
		3. (COMPOSI	TION & IN	IGRE	ACGIH	NFOF	NOHSO	OSURE		OSHA			
		3. (COMPOSI	TION & IN	IGRE			NOHSC ppm	OSURE					
НЕМ	ICAL NAME(S)					ACGIH ppm	ES-	NOHSO ppm	C ES-	LIMITS	OSHA ppm		ОТНЕ	:R
	ICAL NAME(S)	CAS No.	RTECS No.	EINECS No. 231-791-2	% 60-100	ACGIH	ES- TWA	NOHSO ppm	C ES-		OSHA		ОТНЕ	:R
		CAS No.		EINECS No.	%	ACGIH ppm	ES- TWA	PPM ES- STEL	ES- PEAK	PEL	OSHA ppm STEL	IDLH	ОТНЕ	:R
VATE	ER	CAS No. 7332-18-5 7631-99-4	RTECS No. ZC0110000 WC5600000	EINECS No. 231-791-2 231-554-3	%	ACGIH ppm	ES- TWA	PPM ES- STEL	ES- PEAK	PEL	OSHA ppm STEL	IDLH	ОТНЕ	:R
VATE		CAS No. 7332-18-5 7631-99-4 Ox. Sol. 2; E	RTECS No. ZC0110000 WC5600000 ;ye Irrit. 2; H272, H	EINECS No. 231-791-2 231-554-3 319	% 60-100 7-13	ACGIH ppm TLV STE NE NE NE	ES- TWA NF	PPM ES- STEL NF	ES- PEAK NF	PEL NE	OSHA ppm STEL NE	IDLH NE NA		:R
VATE	UM NITRATE	CAS No. 7332-18-5 7631-99-4 Ox. Sol. 2; E 1310-73-2	RTECS No. ZC0110000 WC5600000 tye Irrit. 2; H272, H WB4900000	EINECS No. 231-791-2 231-554-3	% 60-100	ACGIH ppm TLV STE NE NE	ES- TWA NF	PPM ES- STEL NF	ES- PEAK NF	PEL NE	ppm STEL NE	IDLH NE	OTHE	:R
VATE	ER	CAS No. 7332-18-5 7631-99-4 Ox. Sol. 2; E	RTECS No. ZC0110000 WC5600000 tye Irrit. 2; H272, H WB4900000	EINECS No. 231-791-2 231-554-3 319	% 60-100 7-13	ACGIH ppm TLV STE NE NE NE	ES- TWA NF	PPM ES- STEL NF	ES- PEAK NF	PEL NE	OSHA ppm STEL NE	IDLH NE NA		:R
VATE	UM NITRATE	CAS No. 7332-18-5 7631-99-4 Ox. Sol. 2; E 1310-73-2	RTECS No. ZC0110000 WC5600000 tye Irrit. 2; H272, H WB4900000 A; H314	231-791-2 231-554-3 3319 215-185-5	% 60-100 7-13	ACGIH ppm TLV STE NE NE 10 NA	ES- TWA E NF	PPM ES- STEL NF	ES- PEAK NF	PEL NE	OSHA ppm STEL NE	IDLH NE NA		:R
ODI	UM NITRATE	CAS No. 7332-18-5 7631-99-4 Ox. Sol. 2; E 1310-73-2 Skin Corr. 1A	RTECS No. ZC0110000 WC5600000 ye Irrit. 2; H272, H WB4900000 A; H314	231-791-2 231-554-3 319 215-185-5	% 60-100 7-13 1-5	ACGIH ppm TLV STE NE NE 10 NA (2) NA	ES- TWA 10	EXP NOHSC ppm ES- STEL NF	ES-PEAK NF NF	PEL NE 15	OSHA ppm STEL NE NA NA	IDLH NE NA (10)	(2) NIOSH	
VATE SODI	UM NITRATE UM HYDROXIDE	CAS No. 7332-18-5 7631-99-4 Ox. Sol. 2; E 1310-73-2	RTECS No. ZC0110000 WC5600000 Eye Irrit. 2; H272, H WB4900000 A; H314 4. DO NOT INE	231-791-2 231-554-3 3319 215-185-5	% 60-100 7-13 1-5	ACGIH ppm TLV STE NE NE NE 10 NA (2) NA (2) NA EASURI act SafetyC	ES- TWA 10 (2)	EXP NOHSC ppm ES- STEL NF NF	ES-PEAK NF NF	PEL NE 15 (2)	OSHA ppm STEL NE NA NA	IDLH NE NA (10)	(2) NIOSH	Cente
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VATE GODI 4.1	ER UM NITRATE UM HYDROXIDE First Aid: Effects of Exposure:	CAS No. 7332-18-5 7631-99-4 Ox. Sol. 2; E 1310-73-2 Skin Corr. 1A	RTECS No. ZC0110000 WC5600000 Ye Irrit. 2; H272, H WB4900000 A; H314 DO NOT INI or local eme If vomiting or If product ge holding eyeli use, consult Remove con the skin reach has been pro Remove vict Seek immed May be harn Severe or pe Severe irritat Severe irritat	231-791-2 231-791-2 231-554-3 319 215-185-5 FIRST A DUCE VOMITII regency telephocurs spontane ets in the eyes id(s) open to et a physician or ataminated clob coperly cleaned, im to fresh air a liate medical at inful if swallowe ermanent eye of tion and possib tion of respirato	% 60-100 7-13 1-5 NG. Containe number on the end of	ACGIH ppm TLV STE NE NE 10 NA (2) NA (2) NA (2) NA (2) NA (3) NA (4) NA (5) NA (6) NA (6) NA (7) NA (7) NA (8) NA (8) NA (9) NA (9) NA (9) NA (10) NA	ES- TWA 10 10 (2) ES all +1 (8 tance are head lownly with ung. If the mediate led areas mediate l	PPM NOHSC PPM STEL NF	ES-PEAK NF NF NF NF S1-1742 ructions (forwar as amo s or face soap are on not we feel breath and stores)	PEL NE 15 (2) 2 or the s. See d) to rounts o ce become wat ear coming stomach.	NA NA NA NA NA NA NA NA NA NA	IDLH NE NA (10) est Poisediate the risk r for at wollen wated control of the reform a	(2) NIOSH son Control (medical atte of aspiratio least 15 mi during or fol fort persists lothing until	Center ention in. nutes lowing and/or
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WATE GODI 4.1	ER UM NITRATE UM HYDROXIDE First Aid: Effects of Exposure:	CAS No. 7332-18-5 7631-99-4 Ox. Sol. 2; E 1310-73-2 Skin Corr. 1A Ingestion: Eyes: Skin: Inhalation: Eyes: Skin: Inhalation: Eyes: Skin: Inhalation:	RTECS No. ZC0110000 WC5600000 Eye Irrit. 2; H272, H WB4900000 A; H314 DO NOT INE or local eme If vomiting or If product ge holding eyeli use, consult Remove con the skin reach has been pro Remove vict Seek immed May be harn Severe or pe Severe irrita' Severe irrita' Redness, bur Redness, bur	231-791-2 231-791-2 231-554-3 319 215-185-5 FIRST A DUCE VOMITIE regency telephocurs spontane ets in the eyes id(s) open to et a physician or ataminated clott compared the compared compared the compared clott compared the compared compar	% 60-100 7-13 1-5 NG. Containe number of the entire of	ACGIH ppm TLV STE NE NE 10 NA (2) NA (2) NA (2) NA (2) NA (3) NA (4) NE (5) NA (6) NA (7) NA (8) NE (8) NE (9) NA (9) NA (10)	ES- TWA 10 10 (2) ES all +1 (8 tance are head lownly with hing. If the mediate led areas mimediate in a condition outh, the membra eyes	PPM NOHSC PPM STEL NF	ES-PEAK NF NF NF NF S1-1742 ructions (forwar as amo s or face soap are on not we feel breath and stores)	PEL NE 15 (2) 2 or the s. See d) to rounts o ce become wat ear coming stomach.	NA NA NA NA NA NA NA NA NA NA	IDLH NE NA (10) est Poisediate the risk r for at wollen wated control of the reform a	(2) NIOSH son Control (medical atte of aspiratio least 15 mi during or fol fort persists lothing until	Center ention in. nutes lowing and/or
WATE GODI 4.1	ER UM NITRATE UM HYDROXIDE First Aid: Effects of Exposure:	CAS No. 7332-18-5 7631-99-4 Ox. Sol. 2; E 1310-73-2 Skin Corr. 1A Ingestion: Eyes: Skin: Inhalation: Eyes: Skin: Inhalation: Eyes: Skin: Inhalation: Eyes: Skin: Inhalation: Eyes: Skin: Inhalation: Eyes: Eyes: Skin: Inhalation: Eyes: Eyes: Eyes:	RTECS No. ZC0110000 WC5600000 Eye Irrit. 2; H272, H WB4900000 A; H314 DO NOT INE or local eme If vomiting or If product ge holding eyeli use, consult Remove con the skin reach has been pro Remove vict Seek immed May be harn Severe or pe Severe irrita' Redness, bur Redness, bur Nausea, vom	231-791-2 231-791-2 231-554-3 319 215-185-5 FIRST A DUCE VOMITII rgency telephocurs spontane ets in the eyes id(s) open to et a physician or ataminated clob coperly cleaned, im to fresh air a liate medical at inful if swallowe ermanent eye of tion and possib tion of respirate rning, irritation,	% 60-100 7-13 1-5 NG. Container on the country key, flush eyensure contact a contac	ACGIH ppm TLV STE NE NE 10 NA (2) NA (2) NA (2) NA (2) NA (3) NA (4) NE (5) NA (6) NA (7) NA (8) NE (8) NE (9) NA (9) NA (10)	ES- TWA 10 (2) ES all +1 (8 tance are head lowed areas are mediated areas are conditioned a	PPM NOHSC PPM ES-STEL NF	ES-PEAK NF NF NF NF S1-1742 ructions (forwar as amo s or face as on on the coughir and store as coughir as a	PEL NE 15 (2) 2 or the s. See d) to rounts o ce become water ear coming stomach.	NA NA NA NA NA NA NA NA NA NA	IDLH NE NA (10) est Poisediate the risk or for at wollen when the wollen when	(2) NIOSH son Control (medical atte c of aspiratio least 15 mi during or fol fort persists lothing until artificial resp	Center ention in. nutes lowing and/or



Page 2 of 6 BTI-013

Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards

SDS Revision: 3.0

SDS Revision Date: 2/13/2022

		4 FIRST /	411 J IVI		IRES =	CONT	'n					
4.4	Acute Health Effects:	4. FIRST A May be harmful if inhaled. Material						LICOUS ME	mhranes	and ur	ner resni	raton
		tract. Severe burns of mouth, throa								, and ap	рог гоорг	iatory
4.5	Chronic Health Effects:		May damage the lungs. May cause severe or permanent eye damage.									
4.6	Target Organs:	Eyes, Skin, Lungs (Corrosive).				- · ·						
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skir target organs (eyes, skin, and response)					HEALT				3	
		function may be more susceptible t					FLAMM	ABILIT)	<u> </u>		0	
							PHYSIC	AL HAZ	ARDS		1	
							PROTE	CTIVE E			В	3
							EYES	SKIN	L	UNGS		
		5. FIRE	FIGHT	TING I	MEASI	IRFS						
5.1	Fire & Explosion Hazards:	Non-flammable. May react with me					can form	evnlocive	miytures	.		
		with air.	cais to re	nease m	yarogen ga	o, willon	can form	cxpiosive	mixtures	'		
5.2	Extinguishing Methods:	Use fire-extinguishing media appro	priate fo	r surroun	nding mater	ials.						
5.3	Firefighting Procedures:	As with any fire, firefighters should									0	
		approved or equivalent self-contain									3 1	
		as for surrounding materials. He degradation may produce oxides of									\ \	
		should be fought from a safe distar										
		spray to cool fire-exposed surfaces								1		
		fire control or dilution from entering	sewers,	drains, d	drinking wa	ter supp	ly, or any r	natural wa	aterway.			
		6. ACCIDEN	TAL F	RELEA	ASE ME	ASU	RES					
6.1	Spills:	Before cleaning any spill or leak, in	dividuals	involved	d in spill clea	anup mu	st wear ap	propriate	Persona	Protec	tive Equip	men
(PPE). Use safety glasses or safety goggles and face shield; use gloves and other protective clothing									oots			
		etc.) to prevent skin contact.				_						
		etc.) to prevent skin contact. Small Spills: Wear appropriate prote	ective eq	uipment	including g	loves an	d protectiv	e eyewea	r. Use a	non-cor	mbustible	
		etc.) to prevent skin contact. Small Spills: Wear appropriate prot material such as vermiculite or san	ective eq	uipment	including g product and	loves and	d protectiv nto a conta	e eyewea ainer for la	r. Use a ater dispo	non-coi		, iner
		etc.) to prevent skin contact. Small Spills: Wear appropriate protomaterial such as vermiculite or san Large Spills: Keep incompatible material such as the second secon	ective eq nd to soal naterials (uipment k up the l e.g., acid	including g product and ds, powdere	loves and d place in ed metal	d protectiv nto a conta s) away fro	e eyewea ainer for la om spill. S	r. Use a ater dispo Stay upw	non-cor sal. ind and	away fror	, iner m spi
		etc.) to prevent skin contact. Small Spills: Wear appropriate protomaterial such as vermiculite or san Large Spills: Keep incompatible mor release. Isolate immediate haz	ective eq nd to soal naterials (ard area	uipment up the e.g., acid	including g product and ds, powdere p unauthor	loves and d place in ed metal ized pers	d protectiv nto a conta s) away fro sonnel out	e eyewea ainer for la om spill. S of area.	r. Use a ater dispo Stay upw Stop spil	non-cor sal. ind and Il or rele	away fror ase if it c	, iner m spi an b
		etc.) to prevent skin contact. Small Spills: Wear appropriate protomaterial such as vermiculite or san Large Spills: Keep incompatible material such as the second secon	ective eq nd to soal naterials (ard area opropriate	uipment k up the p e.g., acid and kee e protect	including g product and ds, powdere p unauthor live equipm	loves and place in the deciration of the decirat	d protectiv nto a conta s) away fro sonnel out uding resp	e eyewea ainer for la om spill. S of area. iratory pr	r. Use a ater dispo Stay upw Stop spil otection	non-cor sal. ind and Il or rele as cond	away from ase if it o	, iner m spi an be
		etc.) to prevent skin contact. Small Spills: Wear appropriate protomaterial such as vermiculite or san Large Spills: Keep incompatible mor release. Isolate immediate haz done with minimal risk. Wear approximate the statement of the statement o	ective eq nd to soal naterials (ard area opropriate ossible a	uipment k up the place e.g., acid and kee protect nd collect	including g product and ds, powdere p unauthor tive equipm ct in acid-re	loves and place in the deciration of the decirat	d protectiv nto a conta s) away fro sonnel out uding resp	e eyewea ainer for la om spill. S of area. iratory pr	r. Use a ater dispo Stay upw Stop spil otection	non-cor sal. ind and Il or rele as cond	away from ase if it o	, iner m spi an be
		etc.) to prevent skin contact. Small Spills: Wear appropriate protomaterial such as vermiculite or san Large Spills: Keep incompatible mor release. Isolate immediate haz done with minimal risk. Wear appropriate Recover as much free liquid as possible discharging liquid directly into a second.	ective eq nd to soal naterials (ard area opropriate ossible a ewer or su	uipment uipment up the period and kee protect nd collect urface wa	including g product and ds, powdere p unauthor tive equipm ct in acid-re aters.	loves and place in pl	d protectiv nto a conta s) away fro sonnel out uding resp container.	e eyewea ainer for la om spill. S of area. iratory pr	r. Use a ater dispo Stay upw Stop spil otection	non-cor sal. ind and Il or rele as cond	away from ase if it o	, iner m spi an be
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		etc.) to prevent skin contact. Small Spills: Wear appropriate protomaterial such as vermiculite or san Large Spills: Keep incompatible mor release. Isolate immediate haz done with minimal risk. Wear appropriate Recover as much free liquid as prodischarging liquid directly into a second breathing mists or spray. Avoid breathing mists or spray.	ective equit to soal naterials (and area opropriate ossible a ewer or sum and ever or sum and	uipment up the e.g., acid and kee protect nd collecurface wa ORAC nd skin cooke whe as. Keep	including g product and ds, powdere p unauthor tive equipment in acid-relaters. 3E INFO contact. We in handling to out of the	loves and place in definition of the place in definition of the place in the place	d protectivnto a conta s) away frosonnel out uding resp container. ATION ctive equipuct. Wash children.	e eyewea niner for la om spill. S of area. iratory pr Use abso ment whe thorough	r. Use a ster disposition of the spin of t	non-colosal. ind and il or rele as cono pick up ng produ andlingup and	away from ease if it of ditions was residue. uct. Keep Do not ea decontan	, iner m spi can be arrant Avoi out c
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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 3.0 SDS Revision Date: 2/13/2022

		9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Appearance:	Clear liquid
9.2	Odor:	Odorless
9.3	Odor Threshold:	NA NA
9.4	pH:	14
9.5	Melting Point/Freezing Point:	NA NA
9.6	Initial Boiling Point/Boiling Range:	> 100 °C (> 212 °F)
9.7	Flashpoint:	NA NA
9.8	Upper/Lower Flammability Limits:	NA NA
9.9	Vapor Pressure:	NA NA
9.10	Vapor Density:	NA Laboratoria de la constanta
9.11	Relative Density:	1.28
9.12	Solubility: Partition Coefficient (log	Complete (water)
	P _{ow}):	NA NA
9.14	Autoignition Temperature:	NA TOTAL TOT
9.15	Decomposition Temperature:	NA NA
9.16	Viscosity:	NA
9.17	Other Information:	Evaporation Rate: < 1.0 (Ethyl Ether = 1.0)
		10. STABILITY & REACTIVITY
10.1	Stability:	Stable.
10.2	Hazardous Decomposition	Contact with metals such as aluminum and zinc may produce hydrogen gas.
10.3	Products: Hazardous Polymerization:	3, 3 0 0
10.4	Conditions to Avoid:	Will not occur. Incompatible substances.
10.5	Incompatible Substances:	Water-reactive substances, metals (e.g. aluminum, zinc) strong acids, oxidizers.
	·	Trater roughly about 1000, metalo (e.g. diaminani, zino) otrong asias, oxidizoro.
		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: NO
11.2	Toxicity Data:	Sodium Hydroxide: LD_{50} (oral, mouse) = 6600 mg/kg; Sodium Hydroxide: LD_{50} (oral, rabbit) = 500 mg/kg;
		Sodium Nitrate: LD_{50} (oral, rat) = 1267 mg/kg; LD_{50} (oral, rabbit) = 2680 mg/kg.
11.3	Acute Toxicity:	See Section 4.4
11.4	Chronic Toxicity: Suspected Carcinogen:	See Section 4.5
11.6	Reproductive Toxicity:	NA This product is not reported to cause reproductive toxicity in humans.
	Mutagenicity:	This product is not reported to cause reproductive toxicity in humans. 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.
11.7	Irritancy of Product:	See Section 4.2
11.8	Biological Exposure Indices:	NE NE
11.9	Physician Recommendations:	Treat symptomatically.
		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	No data available.
12.2	Effects on Plants & Animals:	No data available.
12.3	Effects on Aquatic Life:	Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested). May increase pH of aquatic systems to >pH 10 which may be toxic to aquatic organisms. Sodium Hydroxide: LC ₅₀ (Oncorhynchus mykiss, 96h) – 45.5 mg/L; LC ₅₀ (Daphnia magna) – 40-240 mg/L.
		1 <u></u>
		13. DISPOSAL CONSIDERATIONS
13.1	Waste Disposal:	Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate
		disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage and
		disposal of hazardous waste must be provided by a licensed facility or waste hauler.
13.2	Special Considerations:	NA



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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards

SDS Revision: 3.0

SDS Revision Date: 2/13/2022

Пер	ared to Oorin, ACC, Aive	51, WHON, WHINIO, OHO & EO Standards SDO Nevision. 5.0 SDO Nevision Date. 2/15/2022
		14. TRANSPORTATION INFORMATION
The desc	basic description (ID Nun criptive information may be	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):	UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III LTD QTY (IP VOL ≤ 5.0 L)
14.2	IATA (AIR):	UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY (IP VOL ≤ 0.5 L), PI Y841
14.3	IMDG (OCN):	UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
14.4	TDGR (Canadian GND):	UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
14.5	ADR/RID (EU):	UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
14.6	SCT (MEXICO):	UN3266, LIQUIDOS CORROSIVOS, BASICO, INORGANICO, N.E.P. (HIDROXIDO DE SODIO), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)
14.7	ADGR (AUS):	UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY (IP VOL ≤ 5.0 L)
	<u> </u>	
		15. REGULATORY INFORMATION
15.1	SARA Reporting Requirements	This product does not contain any substances subject to critic in, sections out of the reporting requirements.
15.2	SARA TPQ:	There are no specific Threshold Planning Quantities for the components of this product.
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.
15.4	CERCLA Reportable Quantity:	Sodium Hydroxide: 1,000 lbs (454 kg)
15.5	Other Federal Requirements:	NA
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the HPR and the SDS contains all of 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 D2B (materials causing other toxic effects).
15.7	State Regulatory Information:	Sodium Hydroxide is found on the following state criteria lists: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), Pennsylvania Right-to-Know List (PA), and Washington Permissible Exposures List (WA).
		Sodium Nitrate is found on the following state criteria lists: FL, MA, MN, PA, WA. No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). This 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, Japan – ENCS; Korea – KECI; New Zealand – NZIoC; {Philippines – PICCS; USA – TSCA.



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		16. OTHER INFO	ORMATION
16.1	Other Information:	skin areas with soap and warm water thorouprotection/face protection. IF SWALLOWED: contaminated clothing. Immediately rinse with w INHALED: remove person to fresh air and keep	,
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 contai suitability or completeness is not guaranteed an The information contained herein relates only to to	OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other applicability to this product. To the best of ShipMate's & Birchwood ined herein is reliable and accurate as of this date; however, accuracy, d no warranties of any type, either expressed or implied, are provided. he 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

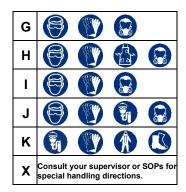
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

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 🔪			
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 _{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)				

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	(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:

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