BIRCHWOOD TECHNOLOGIES

SAFETY DATA SHEET

Page 1 of 6 BTI-050

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

SDS Revision: 2.2

1.1	Product Name:		PRODUC											
	Floddet Name.	1N Sodi	um Hydro	xide Solu	ition									
1.2	Chemical Name:	Sodium Hydr	oxide Solution											
1.3	Synonyms:	NA												
1.4	Trade Names:	Oxyprime Te	st Solution; Pres	sto Black Test	Solution;	A1001;	A100	1a; A1	002					
1.5	Product Use:	NA												
1.6	Distributor's Name:	Birchwood La	aboratories LLC											
1.7	Distributor's Address:	7900 Fuller F	Road, Eden Prai	rie, MN 55344	USA									
1.8	Emergency Phone:	ChemTrec	+1 (800) 424-	9300 / +1 (70	03) 527-3	887 o	r Pois	son C	ontro	l Cen	ter +	l (855)) 281-1	742
1.9	Business Phone / Fax:	+1 (952) 937	7-7900 / +1 (952) 937-7979										
<u></u>		1		ZARDS										
2.1	Hazard Identification:	Canadian Wi	accordance with HMIS and Austra CAUSES SEVEF Skin Corr. 1A	alian Work He	alth and S	afety.			nded t	o com	ply w	th OSF	HA 29 (CFR 1910.120
2.2	Label Elements:	Hazard State	ments (H): H31	4 – Causes se	evere skin	burns a	and ey	e dam	age.					
		Precautionar	y Statements (F	P): P260 – Do	not breat	ne dust	or mi	st. P26	64 – W	/ash th	oroug	hly afte	er	
			280 - Wear pi											
			-P331 – IF SWA											
			IN: Take off im											Par
			ites. P363 – W											(<u>*</u> Č)
			son to fresh air											
			ately. P321 – S											
			-P338 – IF IN E											•
			esent and easy					re loch	ked up	. P50	1 - Di	spose o	of	
2.3	Other Warnings:		ntainer to an app										<u> </u>	
2.3	Other Warnings.		of an exposure								t a pr	ysician	or loca	al poison cont
			nay seek advice		. manufac	urer, a	nd sho	ow the	n this	SDS.				
		KEEP OUT C	OF REACH OF	CHILDREN.										
		3. C	OMPOSIT	ION & IN	GREDI	ENT	INF	OR	ΛΑΤ	ION				
								1			IMITS I	N AIR (m		1
							GIH		NOHSC			OSHA	1	_
						pp	om					ppm	-	
								ES	ppm	ES				
HEMIC	AL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
HEMIC	AL NAME(S)							TWA	ES- STEL	PEAK				OTHER
		CAS No.	RTECS No.	EINECS No.	% 60-100	TLV NE	STEL NE		ES-		PEL NE	STEL NE	IDLH NE	OTHER
VATEF	2	7332-18-5	ZC0110000	231-791-2	60-100	NE	NE	TWA NF	ES- STEL	PEAK	NE	NE	NE	
VATEF			ZC0110000					TWA	ES- STEL	PEAK NF				OTHER (2) NIOSH
VATEF	2	7332-18-5	ZC0110000	231-791-2	60-100	NE	NE	TWA NF	ES- STEL	PEAK NF	NE	NE	NE	
VATEF	2	7332-18-5	ZC0110000 WB4900000 n 1A; H314	231-791-2	60-100	NE (2)	NE	TWA NF	ES- STEL	PEAK NF	NE	NE	NE	
	2	7332-18-5	ZC0110000 WB4900000 on 1A; H314 4. DO NOT INDU	231-791-2 215-185-5 FIRST A	60-100 10-30 ID ME G. Contac	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	NE NA RES /Call +	TWA NF (2)	ES- STEL NF NF	PEAK NF NF	NE (2)	NE NA	NE (10)	(2) NIOSH
VATER	R M HYDROXIDE	7332-18-5 1310-73-2 Skin Corrosic	ZC0110000 WB4900000 m 1A; H314 4. DO NOT INDU or local emerge	231-791-2 215-185-5 FIRST A JCE VOMITIN ency telephon	60-100 10-30 ID ME G. Contac e number	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	NE NA RES /Call +	1 (855 e and in	NF NF) 281- nstruct	PEAK NF NF 1742 c ions. S	NE (2) or the Seek in	NE NA nearest	NE (10) t Poisor	(2) NIOSH
VATER	R M HYDROXIDE	7332-18-5 1310-73-2 Skin Corrosic	ZC0110000 WB4900000 m 1A; H314 4. DO NOT INDL or local emerge vomiting occur	231-791-2 215-185-5 FIRST A JCE VOMITIN ency telephon s spontaneou	60-100 10-30 ID MEA G. Contac e number sly, keep v	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	NE NA RES /Call + istance head	TWA NF (2) 1 (855 e and in lowere	NF) 281- nstruct d (forv	PEAK NF NF 1742 c ions. S vard) to	(2) (2) or the Seek in o redu	NE NA nearest mmedia ce the	NE (10) t Poisor ate med risk of a	(2) NIOSH
VATER	R M HYDROXIDE	7332-18-5 1310-73-2 Skin Corrosic	ZC0110000 WB4900000 In 1A; H314 4. DO NOT INDL or local emergy vomiting occur If product gets	231-791-2 215-185-5 FIRST A ICE VOMITIN ency telephon is spontaneou is in the eyes,	60-100 10-30 ID MEA G. Contac e number sly, keep v flush eyes	(2) ASUI t Safety for ass rictim's thorou	NE NA RES (Call + istance head ughly v	TWA NF (2) 1 (855 e and in lowere with co	NF) 281- nstruct d (forv pious	PEAK NF NF 1742 c ions. S vard) to amour	NE (2) or the Seek in p redu	NE NA NA nearest mmedia ce the water f	NE (10) t Poisor ate med risk of a for at le	(2) NIOSH Control Cent lical attention. aspiration. ast 15 minute
VATER	R M HYDROXIDE	7332-18-5 1310-73-2 Skin Corrosic	ZC0110000 WB4900000 in 1A; H314 4. DO NOT INDL or local emerge vomiting occur If product gets holding eyelid(231-791-2 215-185-5 FIRST A ICE VOMITIN ency telephon s spontaneou s in the eyes, (s) open to ens	60-100 10-30 ID MEA G. Contac e number sly, keep v flush eyes sure comp	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	NE NA VCall + head ughly v shing.	TWA NF (2) -1 (855 e and in lowere with co If the	NF) 281- nstruct d (forv pious	PEAK NF NF 1742 c ions. S vard) to amour	NE (2) or the Seek in p redu	NE NA NA nearest mmedia ce the water f	NE (10) t Poisor ate med risk of a for at le	(2) NIOSH Control Cent lical attention. aspiration. ast 15 minute
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4.1 4.2	R M HYDROXIDE First Aid:	7332-18-5 1310-73-2 Skin Corrosic Ingestion: Eyes: Skin: Inhalation: Ingestion: Eyes: Skin: Inhalation: Eyes:	ZC0110000 WB4900000 on 1A; H314 4. DO NOT INDL or local emergy vomiting occur If product gets holding eyelid(use, consult a Remove conta the skin reaction has been prop Remove victim Seek immediat May be harmfu Causes eye bu May be harmfu May be harmfu upper respirato Redness, burn	231-791-2 215-185-5 FIRST A ICE VOMITIN ency telephon s spontaneou s in the eyes, s) open to ens physician or e minated clothi on worsens, ca erly cleaned. to fresh air at te medical atted ul if swallowed ul if anhaled. Nory tract.	60-100 10-30 10-30 D ME G. Contac e number sly, keep V flush eyes sure comp mergency ng and wa pontact a pl once. Unc ention. severe eye through sk /aterial is and swelli	NE (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	NE NA NA NA RES VCall + istance head ughly v shing. shing. shing. shing v eme co immed ected a n immed ected a healy de	TWA NF (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)) 281- nstruct d (forv pious eyes o /. Do r ns, if b	NF NF 1742 c ions. S vard) tr amour or face ap and not weathir	(2) or the Geek in o redu the or redu beco wate ar con	NE NA NA NA NA NA NA NA NA NA NA NA NA NA	NE (10) t Poisor ate med risk of a or at le bllen du comfor ted clot orm arti	(2) NIOSH (2) NI
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4.1 4.2	R M HYDROXIDE	7332-18-5 1310-73-2 Skin Corrosic Ingestion: Eyes: Skin: Inhalation: Eyes: Skin: Indestion: Eyes: Skin: Inhalation: Eyes: Skin: Inhalation:	ZC0110000 WB4900000 on 1A; H314 DO NOT INDL or local emergy vomiting occur If product gets holding eyelid(use, consult a Remove conta the skin reaction has been prop Remove victim Seek immediar May be harmft Causes eye bu May be harmft May be harmft upper respirato Redness, burm Redness, burm	231-791-2 215-185-5 FIRST A JCE VOMITIN ency telephon is spontaneou in the eyes, is) open to ens physician or e minated clothion on worsens, co erly cleaned. It of resh air at te medical atte Il if swallowed urns. Causes s al if absorbed ful ory tract. ing, irritation, ing, itching, ra ing, severe ab	60-100 10-30 10-30 ID MEA G. Contac e number sly, keep v flush eyes sure comp mergency ng and wa once. Unc ention. severe eye through sk Aaterial is and swelli ash, blister dominal p	NE (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	NE NA NA VCall + istance head ughly v shing. mmed ected a n imme eme ca uses sh nely de	TWA NF (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)) 281- nstruct d (forv pious eyes o /. Do r ns, if b ns. ve to t	NF NF 1742 c ions. S vard) to amour or face ap and not weathing the tiss	VE (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	NE NA NA NA Nearest mmedia ce the water f me swo r. If dis tamina os, perf	NE (10) t Poisor tate med risk of a for at le billen du comfor ted clot orm arti	(2) NIOSH (2) NI
4.1 4.2 4.3	R M HYDROXIDE First Aid: Effects of Exposure: Symptoms of Overexposure:	7332-18-5 1310-73-2 Skin Corrosic Ingestion: Eyes: Skin: Inhalation: Eyes: Skin: Indestion: Eyes: Skin: Inhalation: Eyes: Skin: Inhalation: Eyes: Skin: Inhalation:	ZC0110000 WB4900000 on 1A; H314 DO NOT INDL or local emergy vomiting occur If product gets holding eyelid(use, consult a Remove conta the skin reaction has been prop Remove victim Seek immediat May be harmfu Causes eye bu May be harmfu Qause seye bu May be harmfu upper respirator Redness, burn Redness, burn Nausea, vomit Coughing, whe	231-791-2 215-185-5 FIRST A JCE VOMITIN ency telephon rs spontaneou a in the eyes, s) open to ens physician or e minated clothi on worsens, cr erly cleaned. It o fresh air at te medical atte ul if swallowed urns. Causes s ul if absorbed f ul if inhaled. N ory tract. ing, irritation, ing, irritation, ing, severe ab eezing, swellin	60-100 10-30 ID ME/ G. Contac e number sly, keep v flush eyes sure comp mergency ng and wa ontact a pl once. Uncention. severe eyes through sk // // // // // // // // // /	NE (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	NE NA NA NA NA NA NA NA NA NA NA NA NA NA	TWA NF (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)) 281- nstruct d (forv pious eyes o /. Do r ns, if b ns. ve to t	NF NF 1742 c ions. S vard) to amour or face ap and not weathing the tiss	vr the (2) or the Seek in o redunts of beco wate ar con ng stop sue of	NE NA NA Nearest mmedia ce the water f me swo r. If dis tamina os, perf	NE (10) t Poisor ate med risk of a for at le bilen du comfor ted clot orm arti	(2) NIOSH (2) NI
4.1 4.2	R M HYDROXIDE	7332-18-5 1310-73-2 Skin Corrosic Ingestion: Eyes: Skin: Inhalation: Eyes: Skin: Indestion: Eyes: Skin: Inhalation: Eyes: Skin: Inhalation: Eyes: Skin: Inhalation:	ZC0110000 WB4900000 on 1A; H314 DO NOT INDL or local emergy vomiting occur If product gets holding eyelid(use, consult a Remove conta the skin reaction has been prop Remove victim Seek immediar May be harmft Causes eye bu May be harmft May be harmft upper respirato Redness, burm Redness, burm	231-791-2 215-185-5 FIRST A JCE VOMITIN ency telephon rs spontaneou a in the eyes, s) open to ens physician or e minated clothi on worsens, cr erly cleaned. It o fresh air at te medical atte ul if swallowed urns. Causes s ul if absorbed f ul if inhaled. N ory tract. ing, irritation, ing, irritation, ing, severe ab eezing, swellin	60-100 10-30 ID ME/ G. Contac e number sly, keep v flush eyes sure comp mergency ng and wa ontact a pl once. Uncention. severe eyes through sk // // // // // // // // // /	NE (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	NE NA NA NA NA NA NA NA NA NA NA NA NA NA	TWA NF (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)) 281- nstruct d (forv pious eyes o /. Do r ns, if b ns. ve to t	NF NF 1742 c ions. S vard) to amour or face ap and not weathing the tiss	vr the (2) or the Seek in o redunts of beco wate ar con ng stop sue of	NE NA NA Nearest mmedia ce the water f me swo r. If dis tamina os, perf	NE (10) t Poisor ate med risk of a for at le bilen du comfor ted clot orm arti	(2) NIOS Control lical atten aspiration vast 15 m ring or fo t persists hing until ficial resp membran

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					DEC	cont?	d					
4.5	Chronic Health Effects:	4. FIRST A May damage the nervous system,				cont	u					
4.6	Target Organs:	Eyes, Skin, Lungs (Corrosive), Kidi			1.							
4.7	Medical Conditions	Pre-existing dermatitis, other skin		ons and	disorders	of the	HEALT				3	
	Aggravated by Exposure:	target organs (eyes, skin, and resp	piratory s	system) c	r impaired	kidney						
		function may be more susceptible t	to the eff	ects of th	is substan	ce.	FLAMM				0	
							PHYSIC				1	
							PROTE	CTIVE E		IENT	В	}
							EYES	SKIN	I L	UNGS		
		5. FIREF	FIGHT		IEASU	RES						
5.1	Fire & Explosion Hazards:	Non-flammable. May react with me with air. May intensity fire; oxidizer		elease hy	drogen ga	s, which	can form	explosive	mixtures	5		
5.2	Extinguishing Methods:			r surroun	dina mater	ials.						
5.3	Firefighting Procedures:	Use fire-extinguishing media appropriate for surrounding materials. As with any fire, firefighters should wear appropriate protective equipment including a MSHA/NIOSH 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.										
		6. ACCIDEN			SE ME	ASU	RES					
6.1	Spills:	Before cleaning any spill or leak, ind (PPE). Use safety glasses or safe etc.) to prevent skin contact. <u>Small Spills</u> : Wear appropriate pro- inert material such as vermiculite or <u>Large Spills</u> : Keep incompatible m or release. Isolate immediate haze done with minimal risk. Wear ap Recover as much free liquid as po- discharging liquid directly into a se	ty goggle otective e or sand to aterials a ard area opropriate ossible a	es and fa equipmer o soak up (e.g., acio and kee e protect nd collec	ce shield; u nt including o the products, powdere o unauthori ve equipm ct in acid-re	use gloves ct and pl ed metal ized pers ent inclu	es and oth and prote ace into a s) away fro sonnel out uding resp	er protec ctive eye containe om spill. of area. iratory pi	tive cloth wear. U r for later Stay upw Stop sp rotection	ing (e.g se a no dispos vind and ill or rel as cor	g., apron, b on-combus al. d away fror ease if it c uditions wa	ooot stible m sp an t arrar
		7. HANDLING	8 ST									
7.1	Work & Hygiene Practices:	Avoid breathing mists or spray. Av of the reach of children. Do not ea expose to heat and flame. Use or decontaminate any spills or residue	oid eye a t, drink o nly in ve	and skin or smoke	contact. W when han	ear prote dling this	ective equ s product.	Wash th	noroughly	after h	nandling. D)o n
7.2	Storage & Handling:	Use and store in a cool, dry, well-ve Store in acid-resistant containers. Keep away from incompatible subs	entilated Keep co	ontainers	covered w	hen not	in use. A	void temp	peratures	above		
7.3	Special Precautions:	Empty containers may retain hazar										
		8. EXPOSURE CONT	ROLS	5 & PE	RSON		ROTE					
3.1	Exposure Limits:			GIH		NOHSC			OSHA		OTHER	
	ppm (mg/m ³)		T 1 \ <i>1</i>	0.TE-		ES-	ES-	051	0.75	101		
		CHEMICAL NAME(S) SODIUM HYDROXIDE	TLV (2)	STEL NA	ES-TWA (2)	STEL NF	PEAK NF	PEL (2)	STEL NA	(10)	(2) NIOS	н
3.2	Ventilation & Engineering Controls:	General mechanical (e.g., fans) or ventilation to effectively remove an that an eyewash station, sink or wa	natural v d prever	entilatior	is sufficier of vapors	nt when or mist g	this produ generated	ct is in us from the	e. Use l	ocal or	general ex	hau
8.3	Respiratory Protection:	Not required under normal conditio										
8.4	Eye Protection:	Safety glasses with side shields m shield is also recommended.			en handling	or usin	g this pro	duct. A p	protective	e face		
8.5	Hand Protection:	Wear protective, chemical-resistan	t gloves	(e.g., neo	oprene) wh	en using	ı or handliı	ng this pro	oduct.		Ö	·
8.6	Body Protection:	A chemical resistant apron and/or	r protect	iva alath		ommon	dad whan	In a secolities of		a thia		

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	1	9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Appearance:	Clear liquid
9.2	Odor:	Odorless
9.3	Odor Threshold:	NA
9.4	pH:	>12.0
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	>212 °F
9.7	Flashpoint:	NA
9.8	Upper/Lower Flammability	NA
9.9	Limits: Vapor Pressure:	NA
9.10	Vapor Density:	NA
9.11	Relative Density:	NA
9.12	Solubility:	Complete (water)
9.13	Partition Coefficient (log Pow):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	Evaporation Rate: < 1.0 (ethyl ether = 1.0)
		10. STABILITY & REACTIVITY
10.1	Stability:	Stable under recommended storage conditions.
10.2	Hazardous Decomposition	Sodium oxides.
	Products:	
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Incompatible substances.
10.5	Incompatible Substances:	Acids, organic materials, chlorinated solvents, aluminum, phosphorus, tin/tin oxides, zinc
		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: NO
11.2	Toxicity Data:	Sodium Hydroxide: LD ₅₀ (oral, mouse) = 6,600 mg/kg; Sodium Hydroxide: LD ₅₀ (oral, rabbit) = 500 mg/kg
11.3	Acute Toxicity:	See Section 4.4
11.4	Chronic Toxicity:	See Section 4.5
11.5	Suspected Carcinogen:	NA
11.6	Reproductive Toxicity:	This product is not reported to cause reproductive toxicity in humans.
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.
44 7	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.
11.7	Reproductive Toxicity: Irritancy of Product:	This product is not reported to cause reproductive effects in humans. See Section 4.2
11.8	Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	This product is not reported to cause reproductive effects in humans. See Section 4.2 NE
	Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	This product is not reported to cause reproductive effects in humans. See Section 4.2
11.8	Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	This product is not reported to cause reproductive effects in humans. See Section 4.2 NE Treat symptomatically.
11.8 11.9	Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations:	This product is not reported to cause reproductive effects in humans. See Section 4.2 NE Treat symptomatically. 12. ECOLOGICAL INFORMATION
11.8	Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	This product is not reported to cause reproductive effects in humans. See Section 4.2 NE Treat symptomatically. 12. ECOLOGICAL INFORMATION No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (Kore)
11.8 11.9 12.1	Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability:	This product is not reported to cause reproductive effects in humans. See Section 4.2 NE Treat symptomatically. Treat symptomatically. 12. ECOLOGICAL INFORMATION No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (K _{oc} between 0 and 50).
11.8 11.9 12.1 12.2	Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals:	This product is not reported to cause reproductive effects in humans. See Section 4.2 NE Treat symptomatically. 12. ECOLOGICAL INFORMATION No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (K _{oc} between 0 and 50). NA
11.8 11.9 12.1	Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability:	This product is not reported to cause reproductive effects in humans. See Section 4.2 NE Treat symptomatically. 12. ECOLOGICAL INFORMATION No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (K _{oc} between 0 and 50). NA Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive)
11.8 11.9 12.1 12.2	Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals:	This product is not reported to cause reproductive effects in humans. See Section 4.2 NE Treat symptomatically. 12. ECOLOGICAL INFORMATION No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (K _{oc} between 0 and 50). NA 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.
11.8 11.9 12.1 12.2	Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals:	This product is not reported to cause reproductive effects in humans. See Section 4.2 NE Treat symptomatically. Image: Colspan="2">Treat symptomatically. Description of the colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2"
11.8 11.9 12.1 12.2	Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals:	This product is not reported to cause reproductive effects in humans. See Section 4.2 NE Treat symptomatically. 12. ECOLOGICAL INFORMATION No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (K _{ot} between 0 and 50). NA 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
11.8 11.9 12.1 12.2 12.3	Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals: Effects on Aquatic Life:	This product is not reported to cause reproductive effects in humans. See Section 4.2 NE Treat symptomatically. 12. ECOLOGICAL INFORMATION No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (K _o) between 0 and 50). NA 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 13. DISPOSAL CONSIDERATIONS
11.8 11.9 12.1 12.2	Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals:	This product is not reported to cause reproductive effects in humans. See Section 4.2 NE Treat symptomatically. 12. ECOLOGICAL INFORMATION No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (K _{ob} between 0 and 50). NA 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 13. DISPOSAL CONSIDERATIONS Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate
11.8 11.9 12.1 12.2 12.3	Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals: Effects on Aquatic Life:	This product is not reported to cause reproductive effects in humans. See Section 4.2 NE Treat symptomatically. 12. ECOLOGICAL INFORMATION No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (Kod between 0 and 50). NA 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 13. DISPOSAL CONSIDERATIONS 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
11.8 11.9 12.1 12.2 12.3	Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals: Effects on Aquatic Life:	This product is not reported to cause reproductive effects in humans. See Section 4.2 NE Treat symptomatically. 12. ECOLOGICAL INFORMATION No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (K _{oc} between 0 and 50). NA 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



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		14. TRANSPORTATION INFORMATION
		per, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional
desc		required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.
14.1	49 CFR (GND):	UN1824, SODIUM HYDROXIDE SOLUTION, 8, III LTD QTY (IP VOL ≤ 5.0 L)
14.2	IATA (AIR):	UN1824, SODIUM HYDROXIDE SOLUTION, 8, III, LTD QTY (IP VOL ≤ 0.5 L)
14.3	IMDG (OCN):	UN1824, SODIUM HYDROXIDE SOLUTION, 8, III, LTD QTY (IP VOL ≤ 5.0 L)
14.4	TDGR (Canadian GND):	UN1824, SODIUM HYDROXIDE SOLUTION, 8, III, LTD QTY (IP VOL ≤ 5.0 L)
14.5	ADR/RID (EU):	UN1824, SODIUM HYDROXIDE SOLUTION, 8, III, LTD QTY (IP VOL ≤ 5.0 L)
14.6	SCT (MEXICO):	UN1824, HIDROXIDO DE SODIO EN SOLUCIÓN, 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)
14.7	ADGR (AUS):	UN1824, SODIUM HYDROXIDE SOLUTION, 8, III, LTD QTY (IP VOL ≤ 5.0 L)
		15. REGULATORY INFORMATION
15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, sections 302 or 313 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 CPR and the MSDS contains all of the information required by the CPR. 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). 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 (MA), 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:	NA



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		16. OTHER INFO	DRMATION
16.1	Other Information:	handling. Wear protective gloves/ protective cloth NOT induce vomiting. IF ON SKIN: Take off immer minutes. Wash contaminated clothing before reu breathing. Get emergency medical help immedia	ID EYE DAMAGE. Do not breathe dust or mist. Wash thoroughly after ning/eye protection/face protection. IF SWALLOWED: Rinse mouth. Do diately all contaminated clothing. Immediately rinse with water for several se. IF INHALED: Remove person to fresh air and keep comfortable for tely. Specific treatment see section 4 (first aid) of this SDS or container for several minutes. Remove contact lenses, if present and easy to do. HILDREN.
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 th	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. 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



SAFETY DATA SHEET

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

SDS Revision: 2.2 SDS Rev

SDS Revision Date: 12/6/2022

DEFINITION OF TERMS

ON

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:

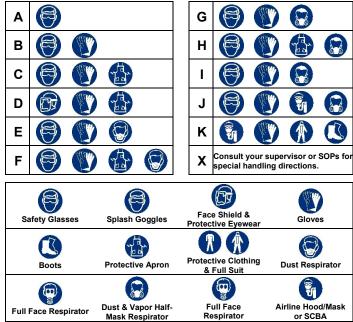
CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTIO
4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:



OTHER STANDARD ABBREVIATIONS:

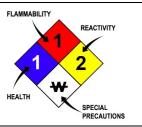
Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

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	FLA
1	Slight Hazard	FLA
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/
W	Use No Water	HEA
OX	Oxidizer	
TREFOIL	Radioactive	



TOXICOLOGICAL INFORMATION:

LD ₅₀ Lethal Dose (solids & liquids) which kills 50% of the exposed anima			
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 _{lo} , LD _{lo} , & LD _o or	D _{Io} , LD _{Io} , & LD _o or Lowest dose (or concentration) to cause lethal or toxic effects		
TC, TC _o , LC _{lo} , & LC _o			
IARC	International Agency for Research on Cancer		
NTP	National Toxicology Program		
RTECS	Registry of Toxic Effects of Chemical Substances		
BCF	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			
тс	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:

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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