BIRCHWOOD TECHNOLOGIES

# SAFETY DATA SHEET

Page 1 of 6 **BTI-042** 

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

SDS Revision: 3.0

SDS Revision Date: 1/31/2022

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1.1	Product Name:		<b>KLEEN<sup>®</sup></b>	HP										
1.2	Chemical Name:	Sodium Hydro	oxide Mixture											
1.3	Synonyms:	870160, 8701												
1.4	Trade Names:	Presto Kleen <sup>®</sup>	) HP											
1.5	Product Use:	Cleaner												
1.6	Distributor's Name:	Birchwood La	boratories LLC											
1.7	Distributor's Address:	7900 Fuller R	oad, Eden Prair	ie, MN 55344	USA									
1.8	Emergency Phone:	ChemTrec -	+1 (800) 424-9	9300 / +1 (70	03) 527-3	<b>887</b> o	r Pois	on Co	ontro	l Cent	er +1	(855)	281-1	742
1.9	Business Phone / Fax:		-7900 / +1 (952)											
		-		ZARDS										
2.1	Hazard Identification:	Canadian WH DANGER! H RESPIRATO	IMIS and Austra	alian Work He SWALLOWE	alth and S D. CAUS	afety. SES S								CFR 1910.1200
		Hazard Statements (H): H302 – Harmful if swallowed. H314 – Causes severe burns and eye damage. H335 – May cause respiratory irritation. Precautionary Statements (P): P260 Do not breathe dust or mist. P264 - Wash hands and exposed skin areas thoroughly with soap and warm water after handling. P270 – Do not eat drink or smoke when using this product. P271 – Use only in a well-ventilated area. P280 – Wear protective gloves/eye protection.face protection. P301+P317 - IF SWALLOWED: Get medical help. P330 – Rinse mouth. P302+P361+P354 – IF ON SKIN: Take off immediately all contaminated clothing. Immediately rise with water for several minutes. P363 – Wash contaminated clothing before use. P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P316 – Get medial help immediately. P321 – Specific treatment – see section 4 of this Safety Data Sheet. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P403+P233 – Store in a well-ventilated place. Keep container tightly closed. P405 – Store locked up. P501 - Dispose of												
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BIRCHWOOD TECHNOLOGIES

# SAFETY DATA SHEET

Page 2 of 6 **BTI-042** 

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

SDS Revision: 3.0 SDS Revision Date: 1/31/2022

	Symptoms of Overexposure:	4. FIRST A						4				
4.3	Symptoms of Overexposure.	Eves:       Redness, burning, irritation, and swelling around eyes. Eye damaged         Skin:       Redness, burning, itching, rash, and scaling of the skin (dermatitis).         Ingestion:       Nausea, vomiting, severe abdominal pain.         Inhalation:       Coughing, wheezing, swelling of throat, irritation in mucous membranes, difficulty breathing.										
4.4	Acute Health Effects:	Severe or permanent eye damage Severe irritation of respiratory tract	e. Sever	re irritatio	on and po						oat and sto	omac
1.5	Chronic Health Effects:	Severe or permanent eye damage.										
.6	Target Organs:	Eyes, skin, lungs, liver, kidneys, red	d blood	cells.								
.7	Medical Conditions	Pre-existing dermatitis, other skin			disorders	of the	HEALTH	1				3
	Aggravated by Exposure:	target organs (eyes, skin, and res					FLAMM		v			0
		exposure those individuals that are	suscep	otible to d	lermatitis,	asthma						
		or bronchitis.					PHYSIC					1
							PROTEC	CTIVE E	EQUIP	MENT		В
							EYES	SKIN	1			
		5. FIREF	IGHT		MEASL	JRES						
.1	Fire & Explosion Hazards:	Non-flammable. Use media as app flammable hydrogen gas.	propriate	e for surr	ounding fi	re. Cont			y relea	se		
.2	Extinguishing Methods:	Carbon dioxide, foam, water spray,										
5.3	Firefighting Procedures:	As with any fire, firefighters si MSHA/NIOSH approved or equival clothing. Hazardous decomposition oxides of carbon, and/or nitrogen, safe distance. Prevent runoff from water supply, or any natural water	lent sel produc hydroca n fire co	f-contain cts may b arbons a	ed breathing be released nd/or deriv	ng appai d. Therm vatives. F	ratus (SCB al degrada Fire should	A) and p tion may be foug	protecti produ ht from	ve ce i a	3	1
		6. ACCIDENT			SE ME	EASU	RES					
		(PPE). Use safety glasses or safet	y yoyyi									hor
		etc.) to prevent skin contact. <u>Small Spills</u> : Wear appropriate pro- inert material such as vermiculite on <u>Large Spills</u> : Keep incompatible m release. Isolate immediate hazard done with minimal risk. Wear app Recover as much free liquid as po discharging liquid directly into a set	r sand t aterials d area a propriate ssible a	equipme to soak u (e.g., org and keep e protect and colled	nt includin p the prod ganics suc unauthori ive equipr ct in acid-r	g gloves uct and p h as oil) ; zed pers nent incl	and protect place into a away from s onnel out c uding respi	ctive eye containe spill. Sta of area. iratory p	ewear. er for la ay upwi Stop s rotectio	Use a r ater disp ind and a pill or re on as co	non-comb osal. away from elease if it onditions v	ustil spi can varr
		Smáll Spills: Wear appropriate pro inert material such as vermiculite of Large Spills: Keep incompatible m release. Isolate immediate hazard done with minimal risk. Wear app Recover as much free liquid as po discharging liquid directly into a set <b>7. HANDLING 8</b>	r sand t aterials area a propriate ssible a wer or s <b>&amp; ST(</b>	equipme to soak u (e.g., org and keep e protect and colled surface w ORAG	nt includin p the prod ganics suc unauthori: ive equipr ct in acid-r raters.	g gloves uct and p h as oil) : zed pers nent incl esistant	and protect blace into a away from a onnel out c uding respic container. I	ctive eye contain spill. Sta of area. iratory p Use abs	ewear. er for la ay upwi Stop s rotectic orbent	Use a r ater disp ind and a pill or re on as co to pick r	non-comb osal. away from elease if it onditions v up residue	ustil spi can varr e. Av
.1	Work & Hygiene Practices:	<u>Smáll Spills</u> : Wear appropriate pro- inert material such as vermiculite of <u>Large Spills</u> : Keep incompatible m release. Isolate immediate hazard done with minimal risk. Wear app Recover as much free liquid as po discharging liquid directly into a set <b>7. HANDLING &amp;</b> Avoid breathing mists or spray. Avoid of the reach of children. Do not of	r sand t aterials d area a propriate ssible a wer or s <b>&amp; ST(</b> bid eye a eat, drii	equipme to soak u (e.g., org and keep e protect and colled surface w ORAC and skin nk or sm	nt includin p the produ- ganics suc unauthoriz- ive equipri- ct in acid-r raters.	g gloves uct and p h as oil) ; zed pers nent incl esistant <b>ORM/</b> /ear prot	and protect blace into a away from a onnel out c uding respic container. I ATION ective equi	ctive eye contain spill. Sta f area. iratory p Use abs	ewear. er for la ay upwi Stop s rotectic orbent when ha	Use a r ater disp ind and a pill or re on as co to pick u	non-comb osal. away from elease if it onditions v up residue	ustil can varr e. Av
7.1	Work & Hygiene Practices: Storage & Handling:	<u>Smáll Spills</u> : Wear appropriate pro- inert material such as vermiculite of <u>Large Spills</u> : Keep incompatible m release. Isolate immediate hazard done with minimal risk. Wear app Recover as much free liquid as po discharging liquid directly into a set <b>7. HANDLING &amp;</b> Avoid breathing mists or spray. Avoid of the reach of children. Do not of Immediately clean-up and decontar Use and store in a cool, dry, well- sunlight. Keep away from incompa	r sand t aterials area a propriate ssible a wer or s <b>&amp; ST(</b> bid eye a eat, drin minate a -ventilat tible su	equipme o soak u (e.g., orq and keep e protect surface w ORAC and skin nk or sm any spills ted locat bstances	nt includin p the prod ganics suc unauthoriz ive equipm ct in acid-r raters. <b>BE INF(</b> contact. W noke when or residue ion (e.g., 1 c (see Sect	g gloves uct and p h as oil); zed pers nent incl esistant <b>DRM/</b> /ear prot handlin es.	and protect olace into a away from so onnel out c uding respic container. I ATION ective equi ag this proc	ctive eye containd spill. Sta of area. iratory p Use abs pment w duct. W ation, fa	ewear. er for la ay upwi Stop s rotectic orbent hen ha /ash th	Use a rater disp ind and a pill or re on as cc to pick u ndling p oroughly vay from	non-combiosal. away from elease if it onditions v up residue roduct. Ke y after ha	ustik spil can varra e. Av
.2		<u>Smáll Spills</u> : Wear appropriate pro- inert material such as vermiculite of <u>Large Spills</u> : Keep incompatible m release. Isolate immediate hazard done with minimal risk. Wear app Recover as much free liquid as po discharging liquid directly into a set <b>7. HANDLING &amp;</b> Avoid breathing mists or spray. Avoid of the reach of children. Do not of Immediately clean-up and decontar Use and store in a cool, dry, well-	r sand t aterials area a propriate ssible a wer or s <b>&amp; ST(</b> bid eye a eat, drin minate a -ventilat tible su	equipme o soak u (e.g., orq and keep e protect surface w ORAC and skin nk or sm any spills ted locat bstances	nt includin p the prod ganics suc unauthoriz ive equipm ct in acid-r raters. <b>BE INF(</b> contact. W noke when or residue ion (e.g., 1 c (see Sect	g gloves uct and p h as oil); zed pers nent incl esistant <b>DRM/</b> /ear prot handlin es.	and protect olace into a away from so onnel out c uding respic container. I ATION ective equi ag this proc	ctive eye containd spill. Sta of area. iratory p Use abs pment w duct. W ation, fa	ewear. er for la ay upwi Stop s rotectic orbent hen ha /ash th	Use a rater disp ind and a pill or re on as cc to pick u ndling p oroughly vay from	non-combiosal. away from elease if it onditions v up residue roduct. Ke y after ha	ustik spi can varra e. Av
.2	Storage & Handling:	<u>Smáll Spills</u> : Wear appropriate pro- inert material such as vermiculite of <u>Large Spills</u> : Keep incompatible m release. Isolate immediate hazard done with minimal risk. Wear app Recover as much free liquid as po discharging liquid directly into a set <b>7. HANDLING &amp;</b> Avoid breathing mists or spray. Avoid of the reach of children. Do not of Immediately clean-up and decontar Use and store in a cool, dry, well- sunlight. Keep away from incompa	r sand t aterials l area a propriate ssible a wer or s <b>&amp; ST(</b> bid eye eat, drin minate a -ventilat tible su dous pr	equipme o soak u (e.g., org ind keep e protect and coller surface w ORAC and skin nk or sm any spills ted locat bstances oduct res	nt includin p the prod ganics suc unauthori: ive equipr ct in acid-r raters. <b>Contact</b> . W noke wher or residue ion (e.g., 1 (see Sect sidues.	g gloves uct and p h as oil) ; zed pers nent incl esistant <b>DRM/</b> /ear prot handlin es. local exh ion 10).	and protect olace into a away from a onnel out of uding respice container. I ATION ective equip g this proof naust ventil Protect con	ctive eye containd spill. Sta of area. iratory p Use abs pment w duct. W ation, fa	ewear. er for la ay upwi Stop s rotectic orbent /hen ha /ash th nns) aw	Use a rater disp ind and a pill or re on as cc to pick u ndling p oroughly vay from	non-combiosal. away from elease if it onditions v up residue roduct. Ke y after ha	ustik spil can varra e. Av
	Storage & Handling: Special Precautions: Exposure Limits:	Smáll Spills: Wear appropriate pro- inert material such as vermiculite on Large Spills: Keep incompatible m release. Isolate immediate hazard done with minimal risk. Wear app Recover as much free liquid as po discharging liquid directly into a ser <b>7. HANDLING &amp;</b> Avoid breathing mists or spray. Avoid of the reach of children. Do not of Immediately clean-up and decontar Use and store in a cool, dry, well- sunlight. Keep away from incompa Empty containers may retain hazard	r sand t aterials l area a propriate ssible a wer or s <b>&amp; ST(</b> bid eye a eat, drim <u>minate a</u> -ventilat tible su dous pr	equipme o soak u (e.g., org ind keep e protect and coller surface w ORAC and skin nk or sm any spills ted locat bstances oduct res	nt includin p the prod ganics suc unauthori: ive equipr ct in acid-r raters. <b>Contact</b> . W noke wher or residue ion (e.g., 1 (see Sect sidues.	g gloves uct and p h as oil) zed pers nent incl esistant ORM/ /ear prot handlin ss. local ext ion 10).	and protect olace into a away from a onnel out of uding respice container. I ATION ective equip g this proof naust ventil Protect con	ctive eye containd spill. Sta of area. iratory p Use abs pment w duct. W ation, fa	ewear. er for la ay upwi Stop s rotectic orbent /hen ha /ash th nns) aw	Use a rater disp ind and a pill or re on as cc to pick u ndling p oroughly vay from	non-combiosal. away from elease if it onditions v up residue roduct. Ke y after ha	ustik can varra e. Av
.2 .3	Storage & Handling: Special Precautions:	Smáll Spills:       Wear appropriate provinert material such as vermiculite on Large Spills:         Keep incompatible m release.       Isolate immediate hazard done with minimal risk.         Mean appropriate growth minimal risk.       Wear appropriate provide the material such as provide the mediate hazard done with minimal risk.         Recover as much free liquid as point discharging liquid directly into a set       The MANDLING 8         Avoid breathing mists or spray.       Avoid breathing mists or spray.         Mean and store in a cool, dry, well-sunlight.       Keep away from incompaterial sunlight.         Band store in a cool, dry, well-sunlight.       Keep away from incompaterial sunlight.         Band Store Store in a cool, dry, well-sunlight.       Keep away from incompaterial sunlight.         Band Store Stor	r sand t aterials a area a propriate ssible a wer or s <b>&amp; ST(</b> bid eye a eat, drim -ventilat tible su dous pr <b>ROLS</b>	equipme o soak u (e.g., orq and keep e protect and coller surface w ORAG and skin nk or sm any spills ted locat bstances oduct res <b>6 &amp; PE</b> GIH	nt includin p the prod ganics suc unauthori: ive equipr ct in acid-r raters. <b>E INF(</b> contact. W hoke when or residue ion (e.g., 1 (see Sect sidues.	g gloves uct and p h as oil) ; zed pers nent incl esistant ORM/ /ear prot h handlin ss. local exh ion 10).	and protect olace into a away from sonnel out of uding respice container. I ATION ective equiping this produ- naust ventil Protect con	ctive eye containd spill. Sta of area. iratory p Use abs pment w duct. W ation, fa ation, fa	ewear. er for la ay upwi Stop s rotectic orbent then ha /ash th ins) aw from ph	Use a rater disp ind and a pill or re on as cc to pick to indling p ioroughly vay from nysical d	non-comb osal. away from elease if it onditions v up residue roduct. Ke y after ha heat anc amage.	ustik spil can varra e. Av
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.2 .3 .2	Storage & Handling: Special Precautions: Exposure Limits: ppm (mg/m <sup>3</sup> ) Ventilation & Engineering	Smáll Spills:       Wear appropriate provinert material such as vermiculite or Large Spills:         Keep incompatible minediate hazard done with minimal risk.       Wear appropriate provine the second secon	r sand t aterials a area a propriate ssible a wer or s <b>&amp; ST(</b> bid eye a eat, drim <u>ninate a</u> -ventilat tible su dous pr <b>ROLS</b> <b>AC</b> <b>TLV</b> (2) lation to ppropriat	equipme o soak u (e.g., orq and collect surface w ORAC and skin nk or sm any spills ted locat bstances oduct res <b>5 &amp; PE</b> GIH STEL NA o effectivi- te decon	nt includin p the produ- ganics suc unauthoriz- ive equipm ct in acid-r raters. <b>BE INFC</b> contact. W <b>DE INFC</b> contact. W noke when or residue ion (e.g., I c (see Sect sidues. <b>ERSON</b> <b>ES-TWA</b> NF ely remove tamination ys of this zed by 29	g gloves uct and p h as oil) ; zed pers nent incl esistant ORM/ /ear prot h handlin ss. oocal exh ion 10). IAL P NOHSC ES- STEL NF e and pro e equipmore product CFR §	and protect olace into a away from a onnel out of uding respice container. I ATION ective equiling this produ- naust ventil Protect con ROTEC ES-PEAK (2) event build ent is availa	ctive eyec containd spill. Sta of area. iratory p Use abs pment w duct. W ation, fa atiainers f CTION PEL (2) up of va able (e.g rated, ar applicab	wear. er for la ay upwi Stop s rotectic orbent then ha /ash th ins) aw from ph STEL NA pors or ., sink, nd resp le U.S	Use a later disp ind and a pill or re on as cc to pick u indling p ioroughly vay from hysical d iDLH (10) mist ge safety s biratory . State	non-comb osal. away from elease if it onditions v up residue product. Ke y after ha n heat and amage. OTHER (2) NIOS enerated fr	eep ndli H mom
7.2 7.3	Storage & Handling: Special Precautions: Exposure Limits: ppm (mg/m <sup>3</sup> ) Ventilation & Engineering Controls:	Smáll Spills:       Wear appropriate provinert material such as vermiculite or Large Spills:         Keep incompatible m release.       Isolate immediate hazard done with minimal risk.         Vear app Recover as much free liquid as point discharging liquid directly into a server as much free liquid as point discharging liquid directly into a server as much free liquid as point discharging liquid directly into a server as much free liquid as point discharging liquid directly into a server as much free liquid as point discharging liquid directly into a server as much free liquid as point discharging liquid directly into a server as much free liquid as point discharging liquid directly into a server as much free liquid as point discharging liquid directly into a server as much free liquid as point discharging liquid directly into a server as a server as a server as the canadian CAS is a server as the server as the canadian CAS is the server as the server as the canadian CAS is the server as the	r sand t aterials a area a propriate ssible a wer or s <b>&amp; ST(</b> bid eye a eat, drim minate a -ventilat tible su dous pr <b>ROLS</b> <b>AC</b> <b>TLV</b> (2) lation to poporia vapors otection	equipme o soak u (e.g., org and keep e protect and coller surface w ORAG and skin nk or sm any spills ted locat bstances oduct res <b>S &amp; PE</b> GIH STEL NA o effectivi- te decon	nt includin p the prod ganics suc unauthoriz ive equipr ct in acid-r raters. <b>E INF(</b> contact. W hoke wher or residue ion (e.g., 1 (see Sect sidues. <b>ERSON</b> <b>ES-TWA</b> NF ely remove tamination uys of this zed by 29 33 and app	g gloves uct and p h as oil) ; zed pers nent incl esistant <b>DRM/</b> /ear prot h handlin es. occal ext ion 10). IAL P NOHSC ES- STEL NF e and pro- e and pro- e quipm- product CFR § blicable s	and protect olace into a away from so onnel out of uding respice container. I ATION ective equinary g this produ- naust ventil Protect con BROTEC ES-PEAK (2) event builduent is availar s are gener 1910.134, standards o	ctive eye containd spill. Sta of area. iratory p Use abs pment w duct. W ation, fa ation, fa ation, fa tainers f <b>CTION</b> (2) up of va able (e.g rated, ar applicab f Canadi	ewear. er for la ay upwi Stop s rotectic orbent then ha /ash th nns) aw from ph STEL NA pors or ., sink, nd resp le U.S an Pro	Use a nater disp ind and a pill or re- on as cc to pick u indling p ioroughly vay from nysical d iDLH (10) r mist ge safety s Diratory . State vinces,	non-comb osal. away from elease if it onditions v up residue product. Ke y after ha n heat and amage. OTHER (2) NIOS enerated fr	eep ndli H mom
.2 .3 1 .2 .3	Storage & Handling: Special Precautions: Exposure Limits: ppm (mg/m <sup>3</sup> ) Ventilation & Engineering Controls: Respiratory Protection:	Smáll Spills: Wear appropriate provinert material such as vermiculite on Large Spills: Keep incompatible minimal risk. Wear appresense. Isolate immediate hazard done with minimal risk. Wear appresense. Isolate immediate hazard done with minimal risk. Wear appresense much free liquid as point discharging liquid directly into a set of the reach of children. Do not do Immediately clean-up and decontard Use and store in a cool, dry, well-sunlight. Keep away from incompate Empty containers may retain hazard         8. EXPOSURE CONTF         CHEMICAL NAME(S)         SODIUM HYDROXIDE         Use local or general exhaust ventih handling of this product. Ensure appresention).         In instances where dusts, fumes, protection is needed, use only pregulations, or the Canadian CAS S EC member States, or Australia.	r sand t aterials a area a propriate ssible a wer or s <b>&amp; ST(</b> bid eye : eat, drim minate a -ventilat tible su dous pr <b>ROLS</b> <b>AC</b> <b>TLV</b> (2) lation to propria standard vapors otection Standard	equipme o soak u (e.g., orq e protect and collec- surface w ORAC and skin nk or sm any spills ted locat bstances oduct res <b>5 &amp; PE</b> SGIH <b>STEL</b> NA o effective te decon a or spra a authorit d Z94.4-S used whe	nt includin p the prodi- ganics suc unauthoriz- ive equipm ct in acid-r raters. <b>BE INFC</b> contact. When or residue ion (e.g., I c (see Sect sidues. <b>ERSON</b> <b>ES-TWA</b> NF ely remove tamination ys of this zed by 29 33 and app en handling	g gloves uct and p h as oil) ; zed pers nent incl esistant ORM/ /ear prot h handlin ss. local exh ion 10). IAL P NOHSC Es- sTEL NF e and prot e equipm product CFR § plicable s g or usin trile, buty	and protect olace into a away from a onnel out of uding respi- container. I ATION ective equiling this produ- protect con Protect con ROTEC ES-PEAK (2) event build ent is availa are gener 1910.134, tandards o g this produ- yl rubber) w	ctive eye contain spill. Sta of area. iratory p Use abs pment w duct. W ation, fa tainers f CTION PEL (2) up of va able (e.g rated, ar applicab f Canadi uct. A p	wear. er for la ay upwi Stop s rotectic orbent then ha /ash th ins) aw from ph osha stel NA pors or ., sink, an Pro por ctectiv ng or ha	Use a nater disp ind and a pill or re- on as cc to pick u indling p ioroughly ray from ysical d iDLH (10) mist ge safety s biratory . State vinces, ve face andling	non-comb osal. away from elease if it onditions v up residue product. Ke y after ha n heat and amage. OTHER (2) NIOS enerated fr	eep ndli H mom

BIRCHWOOD TECHNOLOGIES

# SAFETY DATA SHEET

Page 3 of 6 **BTI-042** 

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

SDS Revision: 3.0

SDS Revision Date: 1/31/2022

	1	9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Appearance:	Light tan, granular powder
9.2	Odor:	Odorless
9.3	Odor Threshold:	NA
9.4	pH:	13.3
9.5 9.6	Melting Point/Freezing Point: Initial Boiling Point/Boiling	NA
9.0	Range:	> 100 °C (> 212 °F)
9.7	Flashpoint:	NA
9.8	Upper/Lower Flammability Limits:	LEL: NA; UEL: NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	NA
9.11	Relative Density:	2.3 - 2.5
9.12	Solubility:	Appreciable (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:	NA
		10. STABILITY & REACTIVITY
10.1	Stability:	Stable under normal storage and use conditions.
10.2	Hazardous Decomposition Products:	Contact with metals such as aluminum and zinc may produce hydrogen gas. Thermal decomposition can produce oxide of carbon, sodium, nitrogen and sulfur.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Avoid high temperatures and incompatible materials.
10.5	Incompatible Substances:	Water-reactive substances, metals (e.g. aluminum, zinc) strong acids, oxidizers.
		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: NO
11.2	Toxicity Data:	<u>Sodium Hydroxide</u> : LD <sub>50</sub> (oral, rat) = 320 mg/kg; Sodium <u>Metasilicate</u> LD <sub>50</sub> (oral, rat) = 1153 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.
	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
11.9	Physician Recommendations:	Treat symptomatically.
	- njoisian tooonnionaatorio.	Theat Symptomatically.
		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	An environmental hazard cannot be excluded in the event of improper handling or disposal.
12.2	Effects on Plants & Animals:	No data available.
12.3	Effects on Aquatic Life:	Sodium Hydroxide: LC <sub>50</sub> (Gambusia affinis (Mosquito fish), 96h) = 125 mg/L; EC <sub>50</sub> (Daphnia magna (water flea), 48h) = 40.38 mg/L
		13. DISPOSAL CONSIDERATIONS
12 4	Wasta Dispass!	
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 and disposal of hazardous waste must be provided by a licensed facility or waste hauler.



# SAFETY DATA SHEET

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

SDS Revision: 3.0 SDS Revision Date: 1/31/2022

**14. TRANSPORTATION INFORMATION** The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. 49 CFR (GND): 14.1 UN3262, CORROSIVE SOLIDS, BASIC, INORGANIC, N.O.S. (sodium hydroxide, sodium metasilicate), 8, II, LTD QTY (IP VOL ≤ 1.0 kg) 14.2 IATA (AIR): UN3262, CORROSIVE SOLIDS, BASIC, INORGANIC, N.O.S. (sodium hydroxide, sodium metasilicate), 8, II, LTD QTY (IP VOL  $\leq$  0.1 kg) 14.3 IMDG (OCN): UN3262, CORROSIVE SOLIDS, BASIC, INORGANIC, N.O.S. (sodium hydroxide, sodium metasilicate), 8, II, LTD QTY (IP VOL ≤ 1.0 kg) 14.4 TDGR (Canadian GND): UN3262, CORROSIVE SOLIDS, BASIC, INORGANIC, N.O.S. (sodium hydroxide, sodium metasilicate), 8, II, LTD QTY (IP VOL  $\leq$  1.0 kg) ADR/RID (EU): 14.5 UN3262, CORROSIVE SOLIDS, BASIC, INORGANIC, N.O.S. (sodium hydroxide, sodium metasilicate), 8. II, LTD QTY (IP VOL ≤ 1.0 kg) SCT (MEXICO): UN3262, SOLIDOS CORROSIVOS, BASICO, INORGANICO, N.E.P. (hidroxido de sodio, metasilicato 14.6 de sodio), 8, II, CANTIDAD LIMITADA, (IP VOL ≤ 1.0 kg) ADGR (AUS): UN3262, CORROSIVE SOLIDS, BASIC, INORGANIC, N.O.S. (sodium hydroxide, sodium metasilicate), 14.7 8, II, LTD QTY (IP VOL ≤ 1.0 kg)

### 15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, section 313 reporting requirements.
15.2	SARA TPQ:	NA
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.
15.4	CERCLA Reportable Quantity:	Sodium Hydroxide: RQ 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), 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 metasilicate is found on the following state criteria lists: NJ, PA. None of the 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), Ninnesota Hazardous Substances List (MA), 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



# SAFETY DATA SHEET

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

SDS Revision: 3.0

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		16. OTHER INFO	ORMATION
16.1	Other Information:	<b>RESPIRATORY IRRITATION.</b> Do not breathe du and warm water after handling. Use only in a well of the workplace. Wear protective gloves/eye pr INHALED: Remove victim to fresh air and keep plenty of soap and water. If skin irritation or ra CENTER or doctor/physician. Specific treatment before reuse. IF IN EYES: Rinse cautiously with v	AUSES SEVERE BURNS AND EYE DAMAGE. MAY CAUSE ust or mist. Wash hands and exposed skin areas thoroughly with soap II-ventilated area. Contaminated work clothing should not be allowed out otection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF at rest in a position comfortable for breathing. IF ON SKIN: Wash with ish occurs: Get medical advice/attention. Immediately call a POISON – see section 4 of this Safety Data Sheet. Wash contaminated clothing vater for several minutes. Remove contact lenses, if present and easy to ace. Keep container tightly closed. Store locked up. KEEP LOCKED UP
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 the	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



### SAFETY DATA SHEET

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

SDS Revision: 3.0 SDS Re

SDS Revision Date: 1/31/2022

### **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:

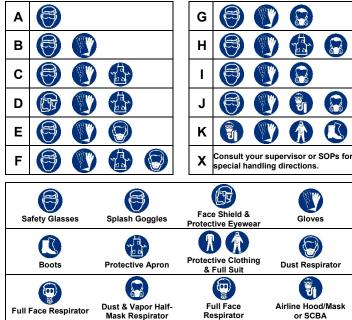
CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

#### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

### HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

### PERSONAL PROTECTION RATINGS:



#### OTHER STANDARD ABBREVIATIONS:

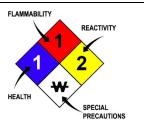
Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

# NATIONAL FIRE PROTECTION ASSOCIATION: NFPA FLAMMABILITY LIMITS IN AIR: Autoignition Minimum temperature required to initiate combustion in air with no competition of the initiate combustion.

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	FL
1	Slight Hazard	FL.
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/
W	Use No Water	HE
OX	Oxidizer	
TREEOII	Radioactive	



#### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	LD <sub>50</sub> Lethal Dose (solids & liquids) which kills 50% of the exposed animals		
LC <sub>50</sub>	Lethal concentration (gases) which kills 50% of the exposed animal		
ppm Concentration expressed in parts of material per million parts			
TD <sub>Io</sub>	Lowest dose to cause a symptom		
TCLo	Lowest concentration to cause a symptom		
TD <sub>lo</sub> , LD <sub>lo</sub> , & LD <sub>o</sub> or	Lowest dose (or concentration) to cause lethal or toxic effects		
TC, TC <sub>o</sub> , LC <sub>io</sub> , & LC <sub>o</sub>			
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	SL Canadian Priority Substances List			
TSCA	SCA 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:

$\bigcirc$	۲	٨		1			
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