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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 1.0 SDS Revision Date: 10/14/2022

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1.1	Product Name:		. PRODUC				:NIIFI	<u> </u>	<u> </u>				
1.1	Product Name:	TRU TE	MP® STAII	NLESS									
1.2	Chemical Name:	Sodium Nitra	ate/Sodium Hydr	roxide Solution	1								
1.3	Synonyms:	622251, 622											
1.4	Trade Names:	Tru Temp® S											
1.5	Product Use:		blackening stain										
1.6	Distributor's Name:		aboratories LLC										
1.7	Distributor's Address:		Road, Eden Prai	,									
1.8	Emergency Phone:		+1 (800) 424-	•	03) 527-	3887 o	r Poison	Contr	ol Cer	ter +1	l (855) 281-1	1742
1.9	Business Phone / Fax:	+1 (952) 937	7-7900 / +1 (952) 937-7979									
			2. H	AZARDS	IDEN	TIFIC	OITA	1					
2.1	Hazard Identification:	Prepared in							d to co	mply v	vith OS	SHA 29	CFR 1910.1200
			HMIS and Austr							. ,			
		DANGER!	CAUSES SEVE	RE SKIN BUR	NS AND	EYE DA	AMAGE. H	IARMF	UL TO	AQUA	TIC LII	FE.	
			n: Skin Corrosio										
2.2	Label Elements:	Hazard Stat	ements (H): H3	14 - Causes	severe sk	in burns	s and eye	damag	ge. H40	2 – Ha	armful	to	
		aquatic life.											
			ry Statements (F										
			with soap and										
			t. P280 - Wear										
			+P331 – IF S\										
			medical help i all contaminate										FI
			ed clothing bef										
			+P338 IF IN EY										
			esent and easy										•
		fresh air and	d keep comforta	ble for breathi	ng. P321	- Spec	ific treatm	ent see	section	1 4 (firs	st aid)	of	
		fresh air and this SDS or	d keep comforta container label.	ble for breathi P370+P378 –	ng. P321 · In case :	Specof fire: u	ific treatm	ent see tinguish	section	n 4 (firs dia app	st aid) propria	of te	
		fresh air and this SDS or for surround	d keep comforta	ible for breathi P370+P378 – P405 – Store I	ng. P321 · In case :	Specof fire: u	ific treatm	ent see tinguish	section	n 4 (firs dia app	st aid) propria	of te	
2.3	Other Warnings:	fresh air and this SDS or for surround approved wa	d keep comforta container label. ling materials. F	ible for breathi P370+P378 – P405 – Store I ant (TSDF).	ng. P321 - In case o locked up	Specof fire: uP501	ific treatm ise fire-ext - Dispose	ent see tinguish of cor	section ning me ntents/ o	n 4 (firs dia app contain	st aid) propria er to a	of te an	poison control
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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 1.0 SDS Revision Date: 10/14/2022

	10 / 10	4. FIRST AID MEASURES – con					
4.3	Symptoms of Overexposure:	Eyes: Redness, burning, irritation, and swelling around eyes					
		Skin: Redness, burning, itching, rash, blistering of skin.					
		Ingestion: Nausea, vomiting, severe abdominal pain.			£ 4	41. !	
.4	Acute Health Effects:	Inhalation: Coughing, wheezing, swelling of throat, irritation in mu					
.4	Acute Health Effects.	May be harmful if inhaled. Material is extremely destructive to the tiss tract. Severe burns of mouth, throat and stomach. May be harmful if a				s and upp	er respirato
.5	Chronic Health Effects:	May damage the lungs. May cause severe or permanent eye damage		ough on			
.6	Target Organs:	Eyes, Skin, Lungs (Corrosive).	-				
.7	Medical Conditions	Pre-existing dermatitis, other skin conditions, and disorders of the	HEALTH	4			3
	Aggravated by Exposure:	target organs (eyes, skin, and respiratory system) or impaired kidney	FLAMM		/		0
		function may be more susceptible to the effects of this substance.					
			PHYSIC				1
			PROTE				В
			EYES	SKIN	L	LUNGS	
		5. FIREFIGHTING MEASURES	3				
.1	Fire & Explosion Hazards:	Non-flammable. May react with metals to release hydrogen gas, which		explosive	mixture	s	
.2	Extinguishing Methods:	with air.					
.2	Firefighting Procedures:	Use fire-extinguishing media appropriate for surrounding materials.		a a MCLL	A /NIIOCI	-	
		As with any fire, firefighters should wear appropriate protective equipm approved or equivalent self-contained breathing apparatus (SCBA) and					
		as for surrounding materials. Hazardous decomposition products					
		degradation may produce oxides of carbon, and/or nitrogen, hydroca					Y
		should be fought from a safe distance. Keep containers cool until well					\vee
		spray to cool fire-exposed surfaces and to protect personal. Fight fire fire control or dilution from entering sewers, drains, drinking water sup				n	
		The control of dilution from entering sewers, drains, drinking water sup	pry, or arry r	iaturai wa	atciway.		
1	Spills:	6. ACCIDENTAL RELEASE MEASU Before cleaning any spill or leak, individuals involved in spill cleanup m (PPE). Use safety glasses or safety goggles and face shield: use glo	nust wear ap				
1	Spills:		nust wear applyes and other into a conta als) away from the country of the countr	er protect e eyewea iner for la om spill. S of area. iratory pro	ive cloth ir. Use a ater disp Stay upw Stop sp otection	ing (e.g., non-comosal. vind and a ill or relea as condi	apron, boo bustible, ind way from s se if it can tions warra
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.1	Work & Hygiene Practices: Storage & Handling: Special Precautions:	Before cleaning any spill or leak, individuals involved in spill cleanup m (PPE). Use safety glasses or safety goggles and face shield; use glo etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves a material such as vermiculite or sand to soak up the product and place Large Spills: Keep incompatible materials (e.g., acids, powdered metror release. Isolate immediate hazard area and keep unauthorized per done with minimal risk. Wear appropriate protective equipment incompatible and collect in acid-resistant discharging liquid directly into a sewer or surface waters. 7. HANDLING & STORAGE INFORM Avoid breathing mists or spray. Avoid eye and skin contact. Wear protective reach of children. Do not eat, drink or smoke when handling this protective reach of children. Do not eat, drink or smoke when handling this protective reach of children. Use only in ventilated areas. Keep out of the reach of any spills or residues. Use and store in a cool, dry, well-ventilated location (e.g., local exhaus Store in acid-resistant containers. Keep containers covered when not keep away from incompatible substances (See Section 10). Protect of Keep away from clothing and other combustible materials. Empty containers are provided in the spill of the section of the reach of the section	nust wear applyes and other and protective into a conta als) away from the container. It containers to the containers of the containers from the containers may repeat to the containers may repeat to the containers may repeat t	e eyewea iner for la om spill. So of area. iratory prouse abso ment whe thorough mmediate fans) awayoid tempom physic retain haz	ive cloth ir. Use a ater disp Stay upw Stop sp otection orbent to en handli ally after h ely clean ay from I eratures al dama zardous OSHA STEL	ing (e.g., non-com osal. vind and a ill or relea as condii pick up r ng produc nandling. [n-up and d heat and c above 40 ge. product re	apron, boot bustible, ine way from space if it can be tited. Avoid the second of the s
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.4		EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd
	Eye Protection:	Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended.
.5	Hand Protection:	Wear protective, chemical-resistant gloves (e.g., neoprene) when using or handling this product.
.6	Body Protection:	A chemical resistant apron and/or protective clothing are recommended when handling or using this product.
		9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Appearance:	
9.2	Odor:	Clear liquid Odorless
9.3	Odor Threshold:	NA NA
9.4	pH:	14.0
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling	1
	Range:	> 100 °C (> 212 °F)
9.7	Flashpoint:	NA NA
9.8	Upper/Lower Flammability Limits:	NA NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	NA NA
9.11	Relative Density:	1.245
9.12	Solubility:	Complete (water)
9.13	Partition Coefficient (log Pow):	NA 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
10.2	Hazardous Decomposition Products:	Contact with metals such as aluminum and zinc may produce hydrogen gas.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Keep away from clothing and other combustible materials. Incompatible substances.
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: YES
11.2	Toxicity Data:	Sodium Hydroxide: LD ₅₀ (oral, mouse) = 6,600 mg/kg; Sodium Hydroxide: LD ₅₀ (oral, rabbit) = 500 mg/kg; Sodium Nitr
		LD ₅₀ (oral, rat) = 1,267 mg/kg; LD ₅₀ (oral, rabbit) = 2,680 mg/kg.
11.3	Acute Toxicity:	See Section 4.4
11.4	Chronic Toxicity:	See Section 4.5
1.5	Suspected Carcinogen:	NA 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.
	Irritancy of Product:	See Section 4.2
1.7	Biological Exposure Indices:	NE NE
		Treat symptomatically.
11.8	Physician Recommendations:	
11.8	Physician Recommendations:	12 ECOLOGICAL INFORMATION
11.8 11.9	Physician Recommendations: Environmental Stability:	12. ECOLOGICAL INFORMATION No data available
11.7 11.8 11.9 12.1 12.2		No data available.
11.8	Environmental Stability:	No data available. No data available.
11.8 11.9 12.1 12.2	Environmental Stability: Effects on Plants & Animals:	No data available.



15.8 Other Requirements:

NA

SAFETY DATA SHEET

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		13. DISPOSAL CONSIDER	RATIONS		
13.1	Waste Disposal:	Review current local, state and federal laws, codes, statute disposal method for the ingredients listed in Section 3. Any federal laws and regulations. Contact the appropriate age disposal of hazardous waste must be provided by a license	disposal practice must be ncy for specific information	e in compliance with lo	ocal, state, and
13.2	Special Considerations:	U.S. EPA Hazardous Waste – Characteristic - Corrosive (D	0002)		
		14. TRANSPORTATION INFO			
		mber, proper shipping name, hazard class & division, packing be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.	group) is shown for each	mode of transportation	n. Additional
14.1	49 CFR (GND):	UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N. (IP VOL ≤ 5.0 L)	O.S. (SODIUM HYDROXII	DE), 8, III LTD QTY	
14.2	IATA (AIR):	UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N. (IP VOL ≤ 0.5 L), PI Y841	O.S. (SODIUM HYDROX	IDE), 8, III, LTD QTY	
14.3	IMDG (OCN):	UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N. (IP VOL ≤ 5.0 L)	O.S. (SODIUM HYDROX	IDE), 8, III, LTD QTY	
14.4	TDGR (Canadian GND):	UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N. (IP VOL ≤ 5.0 L)	O.S. (SODIUM HYDROX	IDE), 8, III, LTD QTY	CORROSIVE
14.5	ADR/RID (EU):	UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N. (IP VOL ≤ 5.0 L)	O.S. (SODIUM HYDROX	IDE), 8, III, LTD QTY	8
14.6	SCT (MEXICO):	UN3266, LIQUIDOS CORROSIVOS, BASICO, INORGAN CANTIDAD LIMITADA (IP VOL ≤ 5.0 L)	ICO, N.E.P. (HIDROXIDO	DE SODIO), 8, III,	
14.7	ADGR (AUS):	UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N. (IP $VOL \le 5.0 L$)	O.S. (SODIUM HYDROX	IDE), 8, III, LTD QTY	
		15. REGULATORY INFOR	MATION		
15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SA		or 313 reporting requ	irements.
15.2	SARA TPQ:	There are no specific Threshold Planning Quantities for the	components of this produ	ict.	
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventor			
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 cri of the information required by the CPR. The components of None of the components of this product are listed on the P D2B (Corrosive, Other Toxic Effects).	of this product are listed or	n the DSL/NDSL.	T
15.7	State Regulatory Information:	Sodium Hydroxide is found on the following state criter Hazardous Substances List (MA), Minnesota Hazardous Pennsylvania Right-to-Know List (PA), and Washington Personal Militaria is found on the following state criteria lists:	Substances List (MN), Normissible Exposures List (NFL, MA, MN, PA, WA.	ew Jersey Right-to-K	

more information go to www.P65Warnings.ca.gov.

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



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		16. OTHER INF	ORMATION			
16.1	Other Information:	DANGER! CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. HARMFUL TO AQUATIC LIFE. Use as directed. Do not breathe dust or mist. Wash hands and exposed skin areas with soap and warm water thoroughly after handling. Avoid release to the environment. Wear protective gloves/ protective clothing/eye protection/face protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Get emergency medical help immediately. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water for several minutes. Wash contaminated clothing before reuse. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INAHLED: Remove person to fresh air and keep comfortable for breathing. Specific treatment see section 4 (first aid) of this SDS or container label. In case of fire: use fire-extinguishing media appropriate for surrounding materials. Store locked up. KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.				
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.				
16.3	Disclaimer:	government regulations must be reviewed for Technologies' knowledge, the information conta suitability or completeness is not guaranteed a The information contained herein relates only to	OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other applicability to this product. To the best of ShipMate's & Birchwood ained herein is reliable and accurate as of this date; however, accuracy, and no warranties of any type, either expressed or implied, are provided. the specific product(s). If this product(s) is combined with other materials, Data may be changed from time to time. Be sure to consult the latest			
16.4	Prepared for:	Birchwood Technologies 7900 Fuller Road Eden Prairie, MN 55344 USA Tel: +1 (952) 937-7900 Fax: +1 (952) 937-7979 http://www.birchwoodtechnologies.com	BIRCHWOOD®			
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

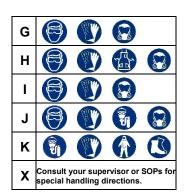
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С		THE STATE OF THE S	
D		THE STATE OF THE S	
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

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:

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	PSL Canadian Priority Substances List				
TSCA	TSCA U.S. Toxic Substance Control Act				
EU	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			\Leftrightarrow		(
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment