

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


SDS Revision: 1.1

SDS Revision Date: 5/24/2021

1. PRODUCT & COMPANY IDENTIFICATION

1.1	Product Name:	TruTemp HXT
1.2	Chemical Name:	Sodium Hydroxide Mixture
1.3	Synonyms:	611958, 611951
1.4	Trade Names:	TruTemp HXT
1.5	Product Use:	Metal finish
1.6	Distributor's Name:	Birchwood Laboratories 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 SAFETYCALL +1 (855) 281-1742
1.9	Business Phone / Fax:	+1 (952) 937-7900 / +1 (952) 937-7979

2. HAZARDS IDENTIFICATION

2.1	Hazard Identification:	<p>Prepared in accordance with the Globally Harmonized System, U.S. OSHA and EU standards. This product is classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS according to the classification criteria of Australian WHS Act & Regulations (WHSR) and Australian Dangerous Goods (ADG) Code.</p> <p>DANGER! CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY INTENSIFY FIRE: OXIDIZER. TOXIC TO AQUATIC LIFE.</p> <p><u>Classification:</u> Skin Corr. 1B, Ox. Liq. 3, Acute Tox. (Oral) 4, Aq. Acute 2</p>	
2.2	Label Elements:	<p><u>Hazard Statements (H):</u> H272 – May intensify fire; Oxidizer. H302 – Harmful if swallowed. H314 – Causes severe skin burns and eye damage. H401 – Toxic to aquatic life.</p> <p><u>Precautionary Statements (P):</u> P210 – Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. P220 – Keep away from clothing and other combustible materials. P260 – Do not breathe dust or mist. P261 – Avoid breathing fumes/mist/vapors/spray. P264 – Wash hands and exposed skin areas with soap and warm water thoroughly after handling. P273 – Avoid release to the environment. P280 – Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P363 – Wash contaminated clothing before reuse. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 – Immediately call a POISON CENTER/doctor. P321 – Specific treatment: see section 4 of this SDS. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P370+P378 – In case of fire: Use fire-extinguishing media appropriate for surrounding materials to extinguish. P405 – Store locked up. P501 - Dispose of contents/ container to an approved waste disposal plant.</p>	
2.3	Other Warnings:	<p>Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. In the event of an exposure or medical inquiry involving this product, please contact a physician or local poison control center, who may seek advice from the U.S. manufacturer, and show them this SDS.</p> <p>KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.</p>	

3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)									OTHER
					ACGIH		NOHSC			OSHA				
					ppm		ppm			ppm				
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH		
WATER (AQUA/EAU)	7732-18-5	NA	231-791-2	50-60	NA	NA	NF	NF	NF	NA	NA	NA		
SODIUM HYDROXIDE	1310-73-2	WB4900000	215-185-5	30-40	(2)	NA	(2)	NF	NF	(2)	NA	(10)	(2) NIOSH	
SODIUM NITRATE	7631-99-4	WC5600000	231-554-3	1-10	10	NA	10	NF	NF	15	NA	NA		
SODIUM NITRITE	7632-00-0	RA1225000	231-555-9	1-10	NA	NA	NF	NF	NF	NA	NA	NA		
PROPRIETARY INGREDIENTS	NA	NA	NA	0-0.5	NA	NA	NF	NF	NF	NA	NA	NA		

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


SDS Revision: 1.1

SDS Revision Date: 5/24/2021

4. FIRST AID MEASURES

4.1	First Aid:	<p><u>Ingestion:</u> DO NOT INDUCE VOMITING. Contact SafetyCall +1 (855) 281-1742 or the nearest Poison Control Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.</p> <p><u>Eyes:</u> If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If the eyes or face become swollen during or following use, consult a physician or emergency room immediately.</p> <p><u>Skin:</u> Remove contaminated clothing and wash affected areas with soap and water. If discomfort persists and/or the skin reaction worsens, contact a physician immediately. Do not wear contaminated clothing until after it has been properly cleaned.</p> <p><u>Inhalation:</u> Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial respiration. Seek immediate medical attention.</p> <p><u>Clothing:</u> Keep away from clothing and other combustible materials. Consult a physician for treatment if concerned.</p>												
4.2	Effects of Exposure:	<p><u>Ingestion:</u> May be harmful if swallowed. Severe burns of mouth, throat and stomach.</p> <p><u>Eyes:</u> Severe or permanent eye damage.</p> <p><u>Skin:</u> Severe irritation and possible burns.</p> <p><u>Inhalation:</u> Severe irritation of respiratory tract and mucous membranes; coughing, difficulty breathing.</p>												
4.3	Symptoms of Overexposure:	<p><u>Eyes:</u> Redness, burning, irritation, and swelling around eyes</p> <p><u>Skin:</u> Redness, burning, itching, rash, burning, redness and blistering of skin.</p> <p><u>Ingestion:</u> Nausea, vomiting, severe abdominal pain or/and vomiting. Oxidation may cause significant metabolic issues such as methemoglobinemia, hemolysis, and intravascular coagulation and renal failure.</p> <p><u>Inhalation:</u> Coughing, wheezing, swelling of throat, irritation in mucous membranes, difficulty breathing. Irritation of nose and throat. Laryngeal spasm, edema, shortness of breath, bronchial constriction, and possible pulmonary edema. Severe and permanent scarring may occur. The pulmonary edema may develop hours after severe exposure.</p>												
4.4	Acute Health Effects:	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Severe burns of mouth, throat and stomach. May be harmful if absorbed through skin.												
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:	<p>Pre-existing dermatitis, other skin conditions, and disorders of the target organs (eyes, skin, and respiratory system) or impaired kidney function may be more susceptible to the effects of this substance.</p> <table border="1" style="float: right;"> <tr> <td style="background-color: #0000FF; color: white;">HEALTH</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="background-color: #FF0000; color: white;">FLAMMABILITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #FFA500; color: white;">PHYSICAL HAZARDS</td> <td style="text-align: center;">1</td> </tr> <tr> <td colspan="2" style="background-color: #000000; color: white;">PROTECTIVE EQUIPMENT</td> </tr> <tr> <td style="background-color: #000000; color: white;">EYES</td> <td style="background-color: #000000; color: white;">SKIN</td> </tr> <tr> <td style="background-color: #000000; color: white;">LUNGS</td> <td style="background-color: #000000; color: white;">B</td> </tr> </table>	HEALTH	3	FLAMMABILITY	0	PHYSICAL HAZARDS	1	PROTECTIVE EQUIPMENT		EYES	SKIN	LUNGS	B
HEALTH	3													
FLAMMABILITY	0													
PHYSICAL HAZARDS	1													
PROTECTIVE EQUIPMENT														
EYES	SKIN													
LUNGS	B													
4.8	Notes to physician:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Monitor patients for delayed development of pulmonary edema which may occur up to 72 hours post inhalation. Following ingestion, neutralization and use of activated charcoal is not indicated. Probable mucosal damage may contraindicate the use of gastric lavage. Treat as corrosive due to the high pH of this material. This is also a strong oxidizer which will react with tissue in the presence of water.												

5. FIREFIGHTING MEASURES

5.1	Fire & Explosion Hazards:	This material can burn but will not readily ignite. However, if involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO, CO _x , Hydrocarbons).	
5.2	Extinguishing Methods:	Use fire-extinguishing media appropriate for surrounding materials, water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Move containers from fire area if this can be done without risk.	
5.3	Firefighting Procedures:	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, 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.	
5.4	Note to first responders:	It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. This material is harmful or fatal to aquatic life.	

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

SDS Revision: 1.1

SDS Revision Date: 5/24/2021





6. ACCIDENTAL RELEASE MEASURES

6.1	Spills:	<p>Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment (PPE). Use safety glasses or safety goggles and face shield; use gloves and other protective clothing (e.g., apron, boots, etc.) to prevent skin contact. Approach release from upwind. Prevent entry into sewers, water courses, basement or confined areas.</p> <p>Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible, inert material such as vermiculite or sand to soak up the product and place into a container for later disposal. Avoid dust generation. DO NOT dry sweep. Vacuum dust with equipment fitted with HEPA filter and placed in closed labeled container.</p> <p>Large Spills: Keep incompatible materials (e.g., acids, powdered metals) away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. Recover as much free liquid as possible and collect in acid-resistant container. Avoid dust generation. DO NOT dry sweep. Vacuum dust with equipment fitted with HEPA filter and placed in closed labeled container. Avoid discharging liquid directly into a sewer or surface waters.</p>
-----	---------	---

7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices:	Avoid breathing mists or spray. Avoid eye and skin contact. Wear protective equipment when handling product. Keep out of the reach of children. Do not eat, drink or smoke when handling this product. Wash thoroughly after handling. Do not expose to heat and flame. Use only in ventilated areas. Keep out of the reach of children. Immediately clean-up and decontaminate any spills or residues. Prevent material or contaminated water from being discharged to any waterway, sewer or drain.
7.2	Storage & Handling:	Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Store in acid-resistant containers. Keep containers covered when not in use. Avoid temperatures above 40 °C (120 °F). Keep away from incompatible substances (See Section 10). Protect containers from physical damage.
7.3	Special Precautions:	Empty containers may retain hazardous product residues. Dispose of contents/ container to an approved waste disposal plant

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Exposure Limits: ppm (mg/m ³)	ACGIH		NOHSC			OSHA			OTHER
		TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
		(2)	NA	(2)	NF	NF	(2)	NA	(10)	(2) NIOSH
		SODIUM NITRATE	10	NA	10	NF	NF	15	NA	NA
8.2	Ventilation & Engineering Controls:	Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). Avoid dust generation. Emission from ventilation or work process equipment should be checked to ensure compliance with the requirement of environmental protection legislation.								
8.3	Respiratory Protection:	Respiratory protection is needed. Use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia. Use properly fitted particulate filter respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.								
8.4	Eye Protection:	AVOID EYE CONTACT. Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).								
8.5	Hand Protection:	AVOID SKIN CONTACT. Wear protective, chemical-resistant gloves (e.g., neoprene) when using or handling this product. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.								
8.6	Body Protection:	AVOID CONTACT. A chemical resistant apron and/or protective clothing are recommended when handling or using large quantities of this product. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.								

9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Appearance:	Liquid
9.2	Odor:	slight
9.3	Odor Threshold:	NA
9.4	pH:	14
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	115.56-126.67 (240-260°F)
9.7	Flashpoint:	NA
9.8	Upper/Lower Flammability Limits:	NA

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

SDS Revision: 1.1

SDS Revision Date: 5/24/2021

9. PHYSICAL & CHEMICAL PROPERTIES – cont'd

9.9	Vapor Pressure:	NA
9.10	Vapor Density:	NA
9.11	Relative Density:	1.49
9.12	Solubility:	Complete
9.13	Partition Coefficient (log P _{ow}):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	SADT: NA

10. STABILITY & REACTIVITY

10.1	Stability:	Stable unless exposed to moisture.
10.2	Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under fire conditions decomposes to chlorine or chlorate. Decomposition of the chlorate produces oxygen which may give rise to the explosion or bursting of closed containers.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Contact with heat, flames, sparks, or other ignition sources. Acid, acid materials, reducers, combustible materials, oils, greases, cloth, wood, rubber, aluminum organics, flammables, copper, and alloys. Reactions may include the following: rise of causing or intensifying fire. Avoid mechanical shock or impact, if contaminated.
10.5	Incompatible Substances:	Acids, acid materials, reducers, combustible materials, oils, grease, cloth, wood, rubber, aluminum, organics, flammables, copper, and alloys.

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; LD ₅₀ (oral, rat): 240 mg/kg; LD ₅₀ (dermal, rabbit): 1350 mg/kg. Sodium Nitrate: LD ₅₀ (oral, rat): 1267 mg/kg; Sodium Nitrite: LD ₅₀ (oral, rat): 157.9 mg/kg; ATE (mix): 318.6 - 446.7 mg/kg		
11.3	Acute Toxicity:	See Section 4.4		
11.4	Chronic Toxicity:	See Section 4.5		
11.5	Suspected Carcinogen:	Sodium Nitrite: IARC – Group 2A – probably carcinogenic to humans.		
11.6	Reproductive Toxicity:	This product is not reported to cause reproductive toxicity in humans.		
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.		
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.		
	Teratogenicity:	This product 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed see 4.8 for more information.		

12. ECOLOGICAL INFORMATION

12.1	Environmental Stability:	There are no specific data available for this product.
12.2	Effects on Plants & Animals:	There are no specific data available for this product.
12.3	Effects on Aquatic Life:	Material is toxic to aquatic organisms on an acute basis. May increase pH of aquatic systems to >pH 10 which may be toxic to aquatic organisms. LC _{50m} (fish): 52.5 mg/L; EC _{50m} (Daphnia magna): 2.73 mg/L Sodium Hydroxide: LC ₅₀ (Oncorhynchus mykiss, 96h) – 45.5 mg/L; LC ₅₀ (Daphnia magna, 48h) – 40-240 mg/L Sodium Nitrate: LC ₅₀ (Oncorhynchus mykiss, 96h) – 0.94-1.92 mg/L; EC ₅₀ (Daphnia magna, 48h) – 12.5 mg/L Sodium Nitrite: LC ₅₀ (Oncorhynchus mykiss, 96h) – 0.94-1.92 mg/L; EC ₅₀ (Daphnia magna, 48h) – 12.5 mg/L

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 3. Dispose of in accordance with local, state, provincial 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:	U.S. EPA RCRA Hazardous Waste Codes: D001 (Characteristic – Ignitability), D002, (Characteristic – Corrosivity).

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

SDS Revision: 1.1

SDS Revision Date: 5/24/2021

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.

14.1	49 CFR (GND):	UN3098, OXIDIZING LIQUID, CORROSIVE, N.O.S. (sodium hydroxide, sodium nitrate), 5.1 (8), II, LTD QTY (IP VOL ≤ 1.0 L)	
14.2	IATA (AIR):	UN3098, OXIDIZING LIQUID, CORROSIVE, N.O.S. (sodium hydroxide, sodium nitrate), 5.1 (8), II LTD QTY (IP VOL ≤ 0.5 L)	
14.3	IMDG (OCN):	UN3098, OXIDIZING LIQUID, CORROSIVE, N.O.S. (sodium hydroxide, sodium nitrate), 5.1 (8), II, LTD QTY (IP VOL ≤ 1.0 L)	
14.4	TDGR (Canadian GND):	UN3098, OXIDIZING LIQUID, CORROSIVE, N.O.S. (sodium hydroxide, sodium nitrate), 5.1 (8), II, LTD QTY (IP VOL ≤ 1.0 L)	
14.5	ADR/RID (EU):	UN3098, OXIDIZING LIQUID, CORROSIVE, N.O.S. (sodium hydroxide, sodium nitrate), 5.1 (8), II, LTD QTY (IP VOL ≤ 1.0 L)	
14.6	SCT (MEXICO):	UN3098, LIQUIDO COMBURENTE, CORROSIVO, N.E.P. (hidroxiido de sodio, nitrato de sodio), 5.1 (8), II, CANT. LTDA. (IP VOL ≤ 1.0 L)	
14.7	ADGR (AUS):	UN3098, OXIDIZING LIQUID, CORROSIVE, N.O.S. (sodium hydroxide, sodium nitrate), 5.1 (8), II, LTD QTY (IP VOL ≤ 1.0 L)	

15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements:	This product contains <u>Sodium Nitrate</u> and <u>Sodium Nitrite</u> 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:	<u>Sodium Hydroxide</u> : 1,000 lbs (454 kg); <u>Sodium Nitrite</u> : 100 lbs (45.4 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, D2B (corrosive material, materials causing other toxic effects). Canadian NPRI ingredient disclosure list (limit 1%): Sodium Nitrite, Sodium Nitrate,	
15.7	State Regulatory Information:	<u>Sodium Hydroxide</u> 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 (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 - KECL; New Zealand - NZIoC; {Philippines - PICCS; USA - TSCA	

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

SDS Revision: 1.1

SDS Revision Date: 5/24/2021

16. OTHER INFORMATION

16.1	Other Information:	<p>DANGER! CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY INTENSIFY FIRE: OXIDIZER. TOXIC TO AQUATIC LIFE.</p> <p>Obtain instructions before use. Do not handle until all precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Do not breathe dust or mist. Avoid breathing fumes/mist/vapors/spray. 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. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Specific treatment: see section 4 of this SDS. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of fire: Use fire-extinguishing media appropriate for surrounding materials to extinguish. Store locked up.</p> <p>KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.</p>	
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	<p>This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Birchwood Technologies' knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.</p>	
16.4	Prepared for:	<p>Birchwood Technologies 7900 Fuller Road Eden Prairie, MN 55344 USA Tel: +1 (952) 937-7900 Fax: +1 (952) 937-7979 http://www.birchwoodtechnologies.com</p>	
16.5	Prepared by:	<p>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</p>	

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

SDS Revision: 1.1

SDS Revision Date: 5/24/2021

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

HEALTH
FLAMMABILITY
PHYSICAL HAZARDS
PERSONAL PROTECTION

PERSONAL PROTECTION RATINGS:

A	
B	
C	
D	
E	
F	

G	
H	
I	
J	
K	
X	Consult your supervisor or SOPs for special handling directions.

Safety Glasses	Splash Goggles	Face Shield & Protective Eyewear	Gloves
Boots	Protective Apron	Protective Clothing & Full Suit	Dust Respirator
Full Face Respirator	Dust & Vapor Half-Mask Respirator	Full Face Respirator	Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

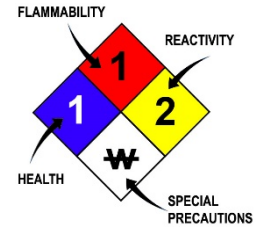
Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

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



TOXICOLOGICAL INFORMATION:

LD₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD₁₀	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD₁₀, LD₁₀, & LD₀₁ or TC, TC₀₁, LC₁₀, & LC₀₁	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL_m	Median threshold limit
log K_{ow} or log K_{oc}	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:

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:

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