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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision Date: 8/20/2025 SDS Revision: 2.1 1. PRODUCT & COMPANY IDENTIFICATION 11 Product Name: TRU TEMP® STAINLESS 1.2 Chemical Name: Sodium Nitrate/Sodium Hydroxide Solution 1.3 Synonyms 622251, 622258 Trade Names: 1.4 Tru Temp® Stainless 1.5 Product Use: Solution for blackening stainless steel Distributor's Name: 1.6 Birchwood Laboratories LLC Distributor's Address: 17 7900 Fuller Road, Eden Prairie, MN 55344 USA 18 Emergency Phone: ChemTrec +1 (800) 424-9300 // +1 (703) 527-3887 or Poison Control Center +1 (855) 281-1742 1.9 Business Phone / Fax: +1 (952) 937-7900 // +1 (952) 937-7979 2. HAZARDS IDENTIFICATION 21 Hazard Identification: Prepared in accordance with UN Globally Harmonized standards. Intended to comply with OSHA 29 CFR 1910.1200. Canadian WHMIS and Australian Work Health and Safety standards. DANGER! CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. Classification: Skin Corr. 1C 22 Label Flements: Hazard Statements (H): H314 – Causes severe skin burns and eye damage. Precautionary Statements (P): P260 - Do not breathe dust or mist. P264+P265 - Wash hands and exposed skin areas with soap and warm water thoroughly after handling. Do NOT touch eyes. P280 -Wear protective gloves/ protective clothing/eye protection/face protection. P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P316 – Get emergency medical help immediately. P302+P361+P354 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water for several minutes. P363 - Wash contaminated clothing before reuse P305+P354+P338 -IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 - Specific treatment see section 4 (first aid) of this SDS or container label. P370+P378 – In case of fire: use fire-extinguishing media appropriate for surrounding materials. P405 -Store locked up. P501 - Dispose of contents/ container to an approved waste disposal plant (TSDF). 2.3 Other Warnings: 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. KEEP LOCKED UP AND OUT OF REACH OF CHILDREN. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC **OSHA** ppm ppm ppm FS. FS-FS. RTECS No. EINECS No. TLV STEL PEAK PEL STEL IDLH OTHER CHEMICAL NAME(S) CAS No. TWA STEL 7332-18-5 ZC0110000 231-791-2 62-88 NE NE NF NF NF NE NE NE WATER 1310-73-2 WB4900000 215-185-5 10-30 (2) NA (2) NF NF NA (10) (2) NIOSH SODIUM HYDROXIDE Skin Corr. 1A; H314 7631-99-4 WC5600000 231-554-3 2-8 10 NA 10 NF NF 15 NA NA SODIUM NITRATE Ox. Solid 2, Eye Irrit. 2A; H272, H319 4. FIRST AID MEASURES DO NOT INDUCE VOMITING. Contact Safety Call +1 (855) 281-1742 or the nearest Poison Control Center First Aid: Ingestion: 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. Eyes: 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. Remove contaminated clothing and wash affected areas with soap and water. If discomfort persists and/or Skin: the skin reaction worsens, contact a physician immediately. Do not wear contaminated clothing until after it has been properly cleaned. Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial Inhalation: respiration. Seek immediate medical attention Effects of Exposure: May be harmful if swallowed. Severe burns of mouth, throat and stomach. Ingestion: Eyes: Severe or permanent eye damage. Skin: Severe irritation and possible burns.

Severe irritation of respiratory tract and mucous membranes; coughing, difficulty breathing.

Inhalation:



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4.3		4. FIRST AI				d					
	Symptoms of Overexposure:	Eyes: Redness, burning, irrit Skin: Redness, burning, itch Ingestion: Nausea, vomiting, sev Inhalation: Coughing, wheezing,	hing, rash, bliste vere abdominal <mark>բ</mark>	ring of skin. pain.		ous membr	anes, dif	ficulty b	reathing.		
4.4	Acute Health Effects:	May be harmful if inhaled. Material is tract. Severe burns of mouth, throat a	extremely desti	ructive to the	e tissue	of the mu	icous me	embrane		per resp	rator
4.5	Chronic Health Effects:	May damage the lungs. May cause s									
.6	Target Organs:	Eyes, Skin, Lungs (Corrosive).									
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin of				HEALTH	ł				3
	/ iggrarated by Exposure.	target organs (eyes, skin, and respiratory system) or impaired kidn function may be more susceptible to the effects of this substance.			FLAMM	ABILIT	<b>Y</b>			0	
		lunction may be more susceptible to t	the chects of this	3 Substance	· .	PHYSIC	AL HAZ	ZARDS			1
						PROTE	CTIVE E	QUIPN	/IENT		В
						EYES	SKIN		LUNGS		
		5. FIREFI	GHTING N	MEASUF	RES						
5.1	Fire & Explosion Hazards:	Non-flammable. May react with meta				can form	explosiv	e mixtu	res		
5.2	Extinguishing Methods:	With air.	ioto for ourround	lina mataria	ulo.					•	
5.3	Firefighting Procedures:	Use fire-extinguishing media appropri As with any fire, firefighters should w				ent includi	ona a MC	ΗΔ/ΝΙΩ	SH		
		approved or equivalent self-contained as for surrounding materials. Hat degradation may produce oxides of should be fought from a safe distance spray to cool fire-exposed surfaces at control or dilution from entering sewe	zardous decom carbon, and/or e. Keep contain nd to protect per	position pr nitrogen, h ers cool unt sonal. Figh	roducts ydrocar til well a nt fire up	may be bons and/after the firewind. Pre	released or deriva e is out. vent rund	I. Thematives. F Use wa	nal Fire Iter		
		6. ACCIDENTA	AL RELEA	SE ME	ASUI	RES					
		etc.) to prevent skin contact.  Small Spills: Wear appropriate protect					iner for la	ater disp		nbustible	, ine
		material such as vermiculite or sand the Large Spills: Keep incompatible material or release. Isolate immediate hazard done with minimal risk. Wear approximate Recover as much free liquid as possible discharging liquid directly into a sewer liquid	erials (e.g., acids d area and keep opriate protectivesible and collect	s, powdered unauthorize e equipment in acid-res	d metals ed pers nt inclu	onnel out ding respi	of area. ratory pr	Stop spotection	oill or relea as cond	ase if it o	m sp an b arran
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7.2	Storage & Handling:  Special Precautions:	Large Spills: Keep incompatible mate or release. Isolate immediate hazard done with minimal risk. Wear approximate Recover as much free liquid as possible discharging liquid directly into a sewer and the reach of children. Do not eat, drink to heat and flame. Use only in ventilating any spills or residues.  Use and store in a cool, dry, well-vent Store in acid-resistant containers. Keep away from incompatible substant Keep away from clothing and other cools.  8. EXPOSURE CONTR	erials (e.g., acided area and keep opriate protective sible and collecter or surface water	s, powdered unauthorize unauthorize equipment in acid-residers.  E INFO untact. Wear handling the out of the residence of the	RMA  r protectis produce the not i tect con y contain  AL PI  NOHSC  ES- STEL	TION  tive equipr uct. Wash children. In entilation, n use. Av tainers fro ners may in  ROTEC  ES- PEAK	of area. ratory pr Jse abso ment whe thorough mmediate fans) aw oid temp m physio retain haz	Stop spotection or bent to see handling after lely clear ay from peratures al dama zardous OSHA	ill or relea as cond pick up ing produ- handling. n-up and of heat and s above 4 age. product r	ct. Keep Do not edecontar direct su 0 °C (12	m spean barrar Avo out xpos nina
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		EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd
.4	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:	Clear liquid
9.2	Odor:	Odorless
9.3	Odor Threshold:	NA NA
9.4	pH:	14.0
9.5	Melting Point/Freezing Point:	NA NA
9.6	Initial Boiling Point/Boiling Range:	> 100 °C (> 212 °F)
9.7	Flashpoint:	NA NA
9.8	Upper/Lower Flammability	NA NA
0.0	Limits:	
9.9 9.10	Vapor Pressure: Vapor Density:	NA NA
9.10		NA Language Control of the Control o
9.11	Relative Density: Solubility:	1.245
9.13	Partition Coefficient (log Pow):	Complete (water)
9.14	Autoignition Temperature:	NA NA
9.14	Decomposition Temperature:	NA NA
9.16	Viscosity:	NA NA
9.10	Other Information:	NA  Francestion Potes of 4.0 (attend attended 4.0)
9.17	Other Information.	Evaporation Rate: < 1.0 (ethyl ether = 1.0)
		10. STABILITY & REACTIVITY
10.1	Ctability:	
10.1	Stability: Hazardous Decomposition	Stable
10.2	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:	
11.3	Acute Toxicity:	See Section 4.4
11.4	Chronic Toxicity:	See Section 4.5
11.5	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.
	reproductive realisty.	
11.7	Irritancy of Product:	See Section 4.2
	· · · · · · · · · · · · · · · · · · ·	See Section 4.2  NE
11.8	Irritancy of Product:	
11.8	Irritancy of Product: Biological Exposure Indices:	NE Treat symptomatically.
11.8 11.9	Irritancy of Product: Biological Exposure Indices:	NE Treat symptomatically.  12. ECOLOGICAL INFORMATION
11.7 11.8 11.9 12.1 12.2	Irritancy of Product: Biological Exposure Indices: Physician Recommendations:	NE Treat symptomatically.  12. ECOLOGICAL INFORMATION No data available.
11.8 11.9 12.1	Irritancy of Product: Biological Exposure Indices: Physician Recommendations:  Environmental Stability:	NE Treat symptomatically.  12. ECOLOGICAL INFORMATION



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	Review current lo disposal method f regulations. Cont hazardous waste ons:  U.S. EPA Hazard  14.  (ID Number, proper shippin n may be required by 49 CF  UN3266, CORRO (IP VOL ≤ 5.0 L)  UN3266, CORRO (IP VOL ≤ 0.5 L),  UN3266, CORRO (IP VOL ≤ 5.0 L)	DISPOSAL CONSIDERATIONS  Docal, state and federal laws, codes, statutes and regulations to determine current status as for the ingredients listed in Section 3. Any disposal practice must follow local, state, and featact the appropriate agency for specific information. Treatment, transport, storage as must be provided by a licensed facility or waste hauler.  Idous Waste – Characteristic - Corrosive (D002)  TRANSPORTATION INFORMATION  Ing name, hazard class & division, packing group) is shown for each mode of transportation FR, IATA/ICAO, IMDG and the CTDGR.  DISIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY PI Y841  DISIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY PI Y841  DISIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY	ederal laws and nd disposal of
The basic description descriptive information 14.1   49 CFR (GND):  14.2   IATA (AIR):  14.3   IMDG (OCN):  14.4   TDGR (Canadian Companies):  14.5   ADR/RID (EU):  14.6   SCT (MEXICO):  14.7   ADGR (AUS):  15.1   SARA Reporting Requirements:  15.2   SARA TPQ:  15.3   TSCA Inventory State Output Companies (Canadian Regular Companies):  15.5   Other Federal Requirements:  15.5   Other Canadian Regular Companies (Canadian Regular Canadian Regular	disposal method fregulations. Cont hazardous waste  U.S. EPA Hazard  14.  (ID Number, proper shippin n may be required by 49 CF  UN3266, CORRO (IP VOL ≤ 5.0 L)  UN3266, CORRO (IP VOL ≤ 0.5 L),  UN3266, CORRO (IP VOL ≤ 5.0 L)	for the ingredients listed in Section 3. Any disposal practice must follow local, state, and featact the appropriate agency for specific information. Treatment, transport, storage at must be provided by a licensed facility or waste hauler.  dous Waste – Characteristic - Corrosive (D002)  TRANSPORTATION INFORMATION  Ing name, hazard class & division, packing group) is shown for each mode of transportation FR, IATA/ICAO, IMDG and the CTDGR.  DSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY PI Y841	ederal laws and nd disposal of
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descriptive information	(ID Number, proper shippin n may be required by 49 CF UN3266, CORRO (IP VOL ≤ 5.0 L) UN3266, CORRO (IP VOL ≤ 0.5 L), UN3266, CORRO (IP VOL ≤ 5.0 L)	ng name, hazard class & division, packing group) is shown for each mode of transportation FR, IATA/ICAO, IMDG and the CTDGR. DSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY DSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY PI Y841	n. Additional
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descriptive information	n may be required by 49 CF  UN3266, CORRO (IP VOL ≤ 5.0 L)  UN3266, CORRO (IP VOL ≤ 0.5 L),  UN3266, CORRO (IP VOL ≤ 5.0 L)	FR, IATA/ICAO, IMDG and the CTDGR.  DSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY  DSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY PI Y841	n. Additional
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14.3 IMDG (OCN):  14.4 TDGR (Canadian Government)  14.5 ADR/RID (EU):  14.6 SCT (MEXICO):  14.7 ADGR (AUS):  15.1 SARA Reporting Requirements:  15.2 SARA TPQ:  15.3 TSCA Inventory State CERCLA Reportab Quantity:  15.5 Other Federal Requirements:  15.6 Other Canadian Results (Canadian Results)	UN3266, CORRO (IP VOL ≤ 0.5 L), UN3266, CORRO (IP VOL ≤ 5.0 L)	PI Y841	$\overline{}$
14.4 TDGR (Canadian G  14.5 ADR/RID (EU):  14.6 SCT (MEXICO):  14.7 ADGR (AUS):  15.1 SARA Reporting Requirements:  15.2 SARA TPQ:  15.3 TSCA Inventory State CERCLA Reportab Quantity:  15.5 Other Federal Requirements:  15.6 Other Canadian Results (Canadian Results)	(IP VOL ≤ 5.0 L)	SOME LIGHTER PARIS INODOANIS NOS (CODUM INTEROVIDE) A HILLED OTV	**
14.5 ADR/RID (EU):  14.6 SCT (MEXICO):  14.7 ADGR (AUS):  15.1 SARA Reporting Requirements: 15.2 SARA TPQ: 15.3 TSCA Inventory State Of Canadian Research Control of Canadian Research Canadian	ND): UN3266, CORRO	, , , , , , , , , , , , , , , , , , , ,	$\smile$
14.6 SCT (MEXICO):  14.7 ADGR (AUS):  15.1 SARA Reporting Requirements: 15.2 SARA TPQ: 15.3 TSCA Inventory State CERCLA Reportab Quantity: 15.5 Other Federal Requirements: 15.6 Other Canadian Results (MEXICA)	(IP VOL ≤ 5.0 L)	OSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY	<b>\rightarrow</b>
14.7 ADGR (AUS):  15.1 SARA Reporting Requirements: 15.2 SARA TPQ: 15.3 TSCA Inventory State CERCLA Reportab Quantity: 15.5 Other Federal Requirements: 15.6 Other Canadian Results   15.7 Other Canadian Results   15.8 Other Canadian Results   15.9	UN3266, CORRO (IP VOL ≤ 5.0 L)	OSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY	$\Diamond$
15.1 SARA Reporting Requirements: 15.2 SARA TPQ: 15.3 TSCA Inventory State CERCLA Reportab Quantity: 15.5 Other Federal Requirements 15.6 Other Canadian Results	UN3266, LIQUID CANT. LTDA. (IP	OOS CORROSIVOS, BASICO, INORGANICO, N.E.P. (HIDROXIDO DE SODIO), 8, III, P VOL $\leq 5.0$ L)	$\Diamond$
Requirements: 15.2 SARA TPQ: 15.3 TSCA Inventory Sta 15.4 CERCLA Reportab Quantity: 15.5 Other Federal Requ 15.6 Other Canadian Re	UN3266, CORRO (IP VOL ≤ 5.0 L)	OSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY	<b>\rightarrow</b>
Requirements: 15.2 SARA TPQ: 15.3 TSCA Inventory Sta 15.4 CERCLA Reportab Quantity: 15.5 Other Federal Requ 15.6 Other Canadian Re	,	15. REGULATORY INFORMATION	
15.2 SARA TPQ: 15.3 TSCA Inventory Sta 15.4 CERCLA Reportab Quantity: 15.5 Other Federal Requ 15.6 Other Canadian Re		s not contain any substances subject to SARA Title III, Sections 302 or 313 reporting requ	irements.
15.4 CERCLA Reportab Quantity: 15.5 Other Federal Requ 15.6 Other Canadian Re	There are no spec	cific Threshold Planning Quantities for the components of this product.	
Quantity: 15.5 Other Federal Requ 15.6 Other Canadian Re		of this product are listed on the TSCA Inventory.	
15.5 Other Federal Requ 15.6 Other Canadian Re	Sodium Hydroxide	<u>le</u> : 1,000 lbs (454 kg)	
	irements: NA		
15.7 State Regulatory In	required by the CF	been classified according to the hazard criteria of the CPR and the SDS contains all of tPR. The components of this product are listed on the DSL/NDSL. None of the components Priorities Substances List.	
	Hazardous Subst Pennsylvania Righ Sodium Nitrate is No other ingredier criteria lists: Calife (FL), Massachuse Substances List (	de is found on the following state criteria lists: Florida Toxic Substances List (FL), Itances List (MA), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Kight-to-Know List (PA), and Washington Permissible Exposures List (WA). If found on the following state criteria lists: FL, MA, MN, PA, WA.  In this product, present in a concentration of 1.0% or greater, are listed on any of the fornia Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic States Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minness (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY) (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances contain any chemicals known to the State of California to cause cancer or other reproduction to www.P65Warnings.ca.gov.	following state Substances List ota Hazardous , Pennsylvania s List (WI). This
15.8 Other Requirement			



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		16. OTHER INFO	ORMATION		
DANGER! CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. Do not breathe dust or mist. Wash hands a skin areas with soap and warm water thoroughly after handling. Do NOT touch eyes. Wear protective glove clothing/eye protection/face protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Get emerge help immediately. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water minutes. Wash contaminated clothing before reuse IF IN EYES: Rinse cautiously with water for several minute contact lenses, if present and easy to do. Continue rinsing. Specific treatment see section 4 (first aid) of container label. In case of fire: use fire-extinguishing media appropriate for surrounding materials. Store locked KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.					
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.			
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Oth 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, accurace suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provide The information contained herein relates only to the specific product(s). If this product(s) is combined with other material all component properties must be considered. Data may be changed from time to time. Be sure to consult the late edition			
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  ShipMate  Dangerous Goods  Training & Consulting		



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SDS Revision: 2.1

SDS Revision Date: 8/20/2025

#### **DEFINITION OF TERMS**

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

#### **GENERAL INFORMATION:**

CAS No.	Chemical Abstract Service Number		
RTECS No.	Registry of Toxic Effects of Chemical Substances Number		
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number		

#### **EXPOSURE LIMITS IN AIR:**

ACGIH	American Conference on Governmental Industrial Hygienists	
IDLH Immediately Dangerous to Life and Health		
NOHSC National Occupational Health and Safety Commission (Australia)		
OSHA	U.S. Occupational Safety and Health Administration	
PEL Permissible Exposure Limit		
STEL Short Term Exposure Limit		
TLV Threshold Limit Value		
TWA	Time Weighted Average	

#### FIRST AID MEASURES:

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

#### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

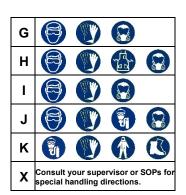
#### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

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



#### PERSONAL PROTECTION RATINGS:

Α			
В			
С			
D			
Е			
F		TH.	





#### OTHER STANDARD ABBREVIATIONS:

Carc	Carcinogenic	
Irrit	Irritant	
NA	NA Not Available	
NR	No Results	
ND	Not Determined	
NE	Not Established	
NF	NF Not Found	
SCBA	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 explor in grid in the presence of an ignition source		
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source	

#### **HAZARD RATINGS:**

0	Minimal Hazard	FLAMMABILITY
1	Slight Hazard	\
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	─ / <b>₹ ₩</b> ≯
₩	Use No Water	HEALTH 🔪
ОХ	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

#### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub> Lethal Dose (solids & liquids) which kills 50% of the expose						
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>	TD <sub>to</sub> Lowest dose to cause a symptom					
TCLo	TCLo Lowest concentration to cause a symptom					
TD <sub>Io</sub> , LD <sub>Io</sub> , & LD <sub>o</sub> or	Lowest dose (or concentration) to cause lethal or toxic effects					
TC, TCo, LCio, & LCo						
IARC	IARC International Agency for Research on Cancer					
NTP	National Toxicology Program					
RTECS	Registry of Toxic Effects of Chemical Substances					
BCF	Bioconcentration Factor					
TLm	Median threshold limit					
log Kow or log Koc	Coefficient of Oil/Water Distribution					

#### REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System				
DOT	U.S. Department of Transportation				
TC	Transport Canada				
EPA	U.S. Environmental Protection Agency				
DSL	Canadian Domestic Substance List				
NDSL	Canadian Non-Domestic Substance List				
PSL	Canadian Priority Substances List				
TSCA	U.S. Toxic Substance Control Act				
EU	European Union (European Union Directive 67/548/EEC)				
WGK	Wassergefährdungsklassen (German Water Hazard Class)				

#### 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