

Page 1 of 6 **BTI-113**

Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 1.0 SDS Revision Date: 2/10/2023

1.1	Product Name:		PRODUC											
		MURIAT												
1.2	Chemical Name:		Acid; Hydroger											
1.3	Synonyms:		051, 883052, 88	33058										
1.4	Trade Names:	Muriatic Acid												
1.5	Product Use:	Primer for Tru	Primer for Tru Temp® Stainless Process											
1.6	Distributor's Name:	Birchwood La	Birchwood Laboratories LLC											
1.7	Distributor's Address:	7900 Fuller R	load. Eden Pra	irie. MN 55344	USA									
1.8	Emergency Phone:		7900 Fuller Road, Eden Prairie, MN 55344 USA ChemTrec +1 (800) 424-9300 / +1 (703) 527-3887 or Poison Control Center +1 (855) 281-1742							1742				
1.9	Business Phone / Fax:		-7900 / +1 (952		JO, UZ1-U	007 0	1 013	011 0	311110	OCIII		(000	, 201-	1774
1.0	Dusiness i fione / i ax.	1 + 1 (952) 937-	-/900/+1(952) 937-7979										
			2. H	AZARDS	IDENT	IFIC	ATIC	N						
2.1	Hazard Identification:	Prepared in a							nded to	com	olv wit	h OSI	IA 29 (CFR 1910.12
		Prepared in accordance with UN Globally Harmonized standards. Intended to comply with OSHA 29 CFR 191 Canadian WHMIS and Australian Work Health and Safety standards. DANGER! MAY BE CORROSIVE TO METALS. CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY RESPIRATORY IRRITATION.												
2.2	Label Elements:		: Metal Corr. 1,				11044							
2	Laber Elements.		ments (H): H29				. H314	– Cau	ises se	evere s	skin bu	ırns an	ia	
		, ,	H335 – May ca	•	,					_				_
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			in a well-vent											
			ce protection.											
			802+P361+P35											
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		damage PAC												
				in a well-vent				ainer ti	ghtly c	losed.	P405	- Stor	е	
			03+P23 – Store 406 – Store in c					ainer ti	ghtly c	losed.	P405	- Stor	е	
		locked up. P4		corrosion resist	ant contair	ner with	n resist	ainer ti ant inr	ghtly c	losed.	P405	- Stor	е	
2.3	Other Warnings:	locked up. Pa contents/con	406 – Store in c tainer to licens	corrosion resist es treatment, s	ant contair torage and	ner with	n resist sal fac	ainer ti ant inr ility (T	ghtly c	losed.	P405	- Stor	е	
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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 1.0 SDS Revision Date: 2/10/2023

4.3		4. FIRST A	AID MEASU	JRES - c	ont'd			
	Symptoms of Overexposure:	Eyes: Redness, burning, irr Skin: Redness, burning, itc Ingestion: Nausea, vomiting, se	ching, rash, and s	scaling of the				
		Inhalation: Coughing, wheezing						
4.4	Acute Health Effects:	May be fatal if swallowed and enter						
4.5	Chronic Health Effects	of high vapor concentrations may o			ion of throat and	eyes, and kidn	ey effect	ts.
4.5 4.6	Chronic Health Effects: Target Organs:	May damage the nervous system, I Eyes, Skin, Lungs.	kidney and/or live	er.				
1.7	Medical Conditions	Persons with pre-existing central	nervous system	m (CNS) dise	ase, HEALTH			3
	Aggravated by Exposure:	neurological conditions, skin disorder			s or			
		impaired liver or kidney function she			FLAMM			0
					PHYSIC	AL HAZARD	S	1
					PROTE	CTIVE EQUIP	PMENT	В
					EYES	SKIN		
	T =		FIGHTING					
5.1	Fire & Explosion Hazards:	High heat will cause product to be						
		containers. Contact with water may sources such as sparks, heat and o						
		decomposition: hydrogen chloride			can ignite explo-	Sivery. Hazardo	,us	_
5.2	Extinguishing Methods:	Carbon Dioxide, foam, low velocity			, dry chemical ex	tinguisher.		
5.3	Firefighting Procedures:	As with any fire, firefighters should	wear appropriate	protective eq	uipment including	g a MSHA/NIOS		3 1
		approved or equivalent self-contain						
		hot oil. Hazardous decomposition						
		oxides of carbon, and/or nitrogen, h	,			0		~
		distance. Keep containers cool un surfaces and to protect personal. I						
		entering sewers, drains, drinking w				or or unution ne	, iii	
			11 2	•	•			
		6. ACCIDEN	TAL RELE	ASE MEA	SURES			
		etc.) to prevent skin contact. Small Spills: Wear appropriate prote						
		material such as vermiculite or san Large Spills: Keep incompatible m release. Isolate immediate hazard with minimal risk. Use ONLY non- as conditions warrant. Recover as I	d to soak up the naterials (e.g., orgarea and keep unsparking tools.	product and p ganics such as nauthorized po Wear appropr as possible an	lace into a conta s oil) away from sersonnel out of an iate protective ed d collect in acid-r	iner for later dis spill. Stay upwi rea. Stop spill c quipment includ	sposal. ind and a or release ling resp	away from spill e if it can be dor iratory protection
		material such as vermiculite or san Large Spills: Keep incompatible m release. Isolate immediate hazard with minimal risk. Use ONLY nonas conditions warrant. Recover as up residue. Avoid discharging liquid	d to soak up the naterials (e.g., orgarea and keep unsparking tools. much free liquid a directly into a s	product and p ganics such as nauthorized po Wear appropr as possible an sewer or surface	lace into a conta s oil) away from sersonnel out of an iate protective ed d collect in acid-rose waters.	iner for later dis spill. Stay upwi rea. Stop spill c quipment includ	sposal. ind and a or release ling resp	away from spill e if it can be dor iratory protection
7.4	West & Union Continue	material such as vermiculite or san Large Spills: Keep incompatible m release. Isolate immediate hazard with minimal risk. Use ONLY nonas conditions warrant. Recover as up residue. Avoid discharging liquic	d to soak up the naterials (e.g., orgarea and keep unsparking tools. I much free liquid ad directly into a s	product and p ganics such as nauthorized po Wear appropr as possible an sewer or surface	lace into a conta s oil) away from s ersonnel out of ar iate protective ed d collect in acid-r ce waters.	iner for later dis spill. Stay upwi rea. Stop spill o quipment includ esistant contair	sposal. ind and a or release ling resp ner. Use	away from spill e if it can be dor iratory protectic absorbent to pi
7.1	Work & Hygiene Practices:	material such as vermiculite or san Large Spills: Keep incompatible m release. Isolate immediate hazard with minimal risk. Use ONLY nonas conditions warrant. Recover as up residue. Avoid discharging liquid	d to soak up the naterials (e.g., orgarea and keep unsparking tools. I much free liquid ad directly into a see STORAC oid eye and skin t, drink or smoke	product and p ganics such as nauthorized po Wear appropr as possible an sewer or surface GE INFOI contact. Wea	lace into a conta s oil) away from s ersonnel out of ar iate protective ed d collect in acid-r ce waters. RMATION r protective equing this product.	iner for later dis spill. Stay upwi rea. Stop spill o quipment includ esistant contair oment when ha Wash thorough	sposal. ind and a or release ling resp ner. Use	away from spill e if it can be dor iratory protectic absorbent to picture absorbent to picture froduct. Keep of handling. Do no
	Work & Hygiene Practices: Storage & Handling:	material such as vermiculite or san Large Spills: Keep incompatible m release. Isolate immediate hazard with minimal risk. Use ONLY nonas conditions warrant. Recover as up residue. Avoid discharging liquic. 7. HANDLING Avoid breathing mists or spray. Avoif the reach of children. Do not ear	d to soak up the naterials (e.g., orgarea and keep unsparking tools. Much free liquid ad directly into a season of the season of	product and p ganics such as nauthorized po Wear appropr as possible an sewer or surface GE INFOI contact. Wea when handling eas. Immediat (e.g., local ext	lace into a conta s oil) away from s ersonnel out of ar iate protective ed d collect in acid-r ce waters. RMATION r protective equip ng this product. ely clean-up and laust ventilation,	iner for later disspill. Stay upwirea. Stop spill oquipment includesistant contair pment when ha Wash thorough decontaminate fans) away from	sposal. ind and a or release ling resp ner. Use undling pi nly after i e any spi n heat an	away from spill e if it can be dor iratory protectic absorbent to picture absorbent to picture froduct. Keep or handling. Do no lls or residues.
		material such as vermiculite or san Large Spills: Keep incompatible m release. Isolate immediate hazard with minimal risk. Use ONLY nonas conditions warrant. Recover as up residue. Avoid discharging liquid. 7. HANDLING Avoid breathing mists or spray. Avoid breathing mists or spray. Avoid the reach of children. Do not ea expose to heat and flame. Use only Use and store in a cool, dry, well-ve Store in closed containers. Avoid Section 10). Protect containers from	d to soak up the naterials (e.g., orgarea and keep unsparking tools. Smuch free liquid addirectly into a smuch free liquid addirectly into a smuch free liquid addirectly into a smoke, in ventilated are intilated location (temperatures also physical damage)	product and p ganics such as nauthorized po Wear approprias possible an sewer or surface CE INFOI contact. Wea e when handling eas. Immediate (e.g., local extraove 40 °C (1 ge. Keep only	lace into a conta soil) away from sersonnel out of an interpretering education acider ce waters. RMATION RMATION The protective equipments in the protective equipments and interpretering this product. The celevity clean-up and interpretering and interpretering from the protective equipments of the protective equipments of the protective equipments. The protective equipments of the protec	iner for later disspill. Stay upwirea. Stop spill oquipment includesistant contair opment when ha Wash thorough decontaminate fans) away from vay from incom	sposal. ind and a or release ding resp ner. Use undling p nly after e any spi n heat an npatible s	away from spill e if it can be dor iratory protectic absorbent to picture absorbent to pictur
7.2		material such as vermiculite or san Large Spills: Keep incompatible m release. Isolate immediate hazard with minimal risk. Use ONLY nonas conditions warrant. Recover as up residue. Avoid discharging liquie. 7. HANDLING Avoid breathing mists or spray. Avoid the reach of children. Do not ea expose to heat and flame. Use only Use and store in a cool, dry, well-ve Store in closed containers. Avoid Section 10). Protect containers from damage. Store in corrosion resistar Empty containers may retain haza	d to soak up the naterials (e.g., orgarea and keep unsparking tools. The sparking tools of the sparking of the s	product and p ganics such as nauthorized po Wear appropr as possible an ewer or surface Contact. Wea e when handling eas. Immedia (e.g., local extractions of the pove 40 °C (1 les. Keep only resistant inner esidues. Keep	lace into a conta soil) away from sersonnel out of an interpreterior end collect in acid-rewaters. RMATION The protective equipment of the product. The interpreterior equipment of the product. The interpreterior end or end o	iner for later disspill. Stay upwirea. Stop spill oquipment includesistant contain the comment when ha wash thorough decontaminate fans) away from vay from incoming. Absorb spipackaging. Absorb.	sposal. ind and a or release ting resp ner. Use undling p hly after le any spi n heat an npatible s illage to p	roduct. Keep or handling. Do no lls or residues. Id direct sunligh substances (Seprevent materia
7.2	Storage & Handling:	material such as vermiculite or san Large Spills: Keep incompatible m release. Isolate immediate hazard with minimal risk. Use ONLY nonas conditions warrant. Recover as up residue. Avoid discharging liquic 7. HANDLING Avoid breathing mists or spray. Avoid the reach of children. Do not ea expose to heat and flame. Use only Use and store in a cool, dry, well-ve Store in closed containers. Avoid Section 10). Protect containers from damage. Store in corrosion resistar	d to soak up the naterials (e.g., orgarea and keep unsparking tools. I much free liquid a directly into a sea sea sea sea sea sea sea sea sea s	product and p ganics such as nauthorized po Wear appropr as possible an ewer or surface GE INFOI contact. Wea e when handling eas. Immediat (e.g., local extraction ove 40 °C (1 pe. Keep only resistant inner esidues. Keep ainer with res	lace into a conta soil) away from sersonnel out of an iate protective ed d collect in acid-rewaters. RMATION r protective equipog this product. ely clean-up and iaust ventilation, 20°F). Keep award in original package liner. o only in original istant inner liner	iner for later disspill. Stay upwirea. Stop spill oquipment includesistant contain poment when ha Wash thorough decontaminate fans) away from vay from incomping. Absorb spipackaging. Ab. Contact with	sposal. ind and a or release ling resp ner. Use undling p nly after r e any spi n heat an npatible s illage to p osorb sp water m	roduct. Keep or handling. Do no lls or residues. Substances (Seprevent materia illage to preveray cause violer
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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 1.0 SDS Revision Date: 2/10/2023

	8.	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd
8.4	Eye Protection:	Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended.
3.5	Hand Protection:	Wear protective, chemical-resistant gloves (e.g., neoprene) when using or handling this product.
3.6	Body Protection:	Not required under normal conditions of use. A chemical resistant apron and/or protective clothing are recommended when handling or using large quantities (e.g., > 5 gallons (18.9 L)) of this product.
		9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Appearance:	Clear to faint yellow liquid
9.2	Odor:	Sharp, pungent irritation odor
9.3	Odor Threshold:	NA NA
9.4	pH:	<1
9.5	Melting Point/Freezing Point:	NA/ <-37.22°C (<-35°F)
9.6	Initial Boiling Point/Boiling Range:	80-83.88°C (176-183 °F)
9.7	Flashpoint:	NA .
9.8	Upper/Lower Flammability	LEL: NA; UEL: NA
0.0	Limits:	
9.9 9.10	Vapor Pressure: Vapor Density:	15-150 (mm Hg) 1.267
9.10	Relative Density:	1.16-1.18
9.11	Solubility:	Complete
9.13	Partition Coefficient (log	NA NA
	Pow):	
9.14 9.15	Autoignition Temperature: Decomposition	NA NA
9.15	Temperature:	NA
9.16	Viscosity:	NA .
9.17	Other Information:	NA NA
		10. STABILITY & REACTIVITY
10.1	Stability:	Stable under normal storage and use conditions.
10.2	Hazardous Decomposition Products:	not water to product. Contact with oxidizing agents may produce chlorine gas. May react violently with incompatibl substances, releasing large amounts of heat.
10.3		Will not occur.
10.3	Products: Hazardous Polymerization: Conditions to Avoid:	not water to product. Contact with oxidizing agents may produce chlorine gas. May react violently with incompatible substances, releasing large amounts of heat. Will not occur. Avoid contact with water. Avoid heat, sparks and open flames. Avoid direct sunlight. Keep away from incompatibles.
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110.3 110.4 110.5 111.1 111.2 111.3 111.4 111.5	Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen:	not water to product. Contact with oxidizing agents may produce chlorine gas. May react violently with incompatible substances, releasing large amounts of heat. Will not occur. Avoid contact with water. Avoid heat, sparks and open flames. Avoid direct sunlight. Keep away from incompatibles. Most metals. Alkalis, metal oxides, amines, water-water reactive substances, sulfuric acid, acetic anhydride, carbonates cyanides, sulfides, hypochlorite, sodium, bases, formaldehyde, oxidizing agents, reducing agents, perchloric acid potassium permanganate, aldehydes, epoxides, fluorine, acetylie3w, carbide3s, chlorosulfonic acid, propylene oxide, ving acetate, hexalithium disilicide, propiolactone, nitrates, alcohols, water, moisture and strong acids. 11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: YES Hydrogen chloride: LD ₅₀ (oral, rat) = 238-277 mg/kg; LD ₅₀ (dermal, mouse) = > 5010 mg/kg; LC ₅₀ (inhl. 1H, rat) = 4.7 mg/l. Oral: 317 mg/kg Inhalation dust/mist: 4.7619 mg/L See Section 4.5 No.
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110.3 110.4 110.5 111.1 111.2 111.3	Products: Hazardous Polymerization: Conditions to Avoid: Incompatible Substances: Routes of Entry: Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity:	not water to product. Contact with oxidizing agents may produce chlorine gas. May react violently with incompatib substances, releasing large amounts of heat. Will not occur. Avoid contact with water. Avoid heat, sparks and open flames. Avoid direct sunlight. Keep away from incompatibles. Most metals. Alkalis, metal oxides, amines, water-water reactive substances, sulfuric acid, acetic anhydride, carbonate cyanides, sulfides, hypochlorite, sodium, bases, formaldehyde, oxidizing agents, reducing agents, perchloric acid potassium permanganate, aldehydes, epoxides, fluorine, acetylie3w, carbide3s, chlorosulfonic acid, propylene oxide, vin acetate, hexalithium disilicide, propiolactone, nitrates, alcohols, water, moisture and strong acids. 11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: YES Hydrogen chloride: LD ₅₀ (oral, rat) = 238-277 mg/kg; LD ₅₀ (dermal, mouse) = > 5010 mg/kg; LC ₅₀ (inhl. 1H, rat) = 4.7 mg/coral: 317 mg/kg Inhalation dust/mist: 4.7619 mg/L See Section 4.5 No. This product is not reported to cause reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans.
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Page 4 of 6 **BTI-113**

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

SDS Revision: 1.0

SDS Revision Date: 2/10/2023

riep	ared to OSTIA, ACC, F	ANSI, WHSK, WHIMIS, GHS & EU Standards	3D3 Revision, 1.0 SD3 Revision Date, 2/10/2023
		46 - 510-500 41 - 601	
		13. DISPOSAL CON	
13.1	Waste Disposal:	disposal method for the ingredients listed in Section	s, statutes and regulations to determine current status and appropriate n 3. Any disposal practice must be in compliance with local, state, and late agency for specific information. Treatment, transport, storage and a licensed facility or waste hauler.
13.2	Special Considerations:	Hazardous waste number: D002	,
		14. TRANSPORTATIO	N INFORMATION
The	basic description (ID N		, packing group) is shown for each mode of transportation. Additional
14.1	49 CFR (GND):	UN1789, HYDROCHLORIC ACID, 8, II	TDGN.
14.2	IATA (AIR):	UN1789, HYDROCHLORIC ACID, 8, II	^
14.3	IMDG (OCN):	UN1789. HYDROCHLORIC ACID. 8. II	
14.4	TDGR (Canadian GND):	UN1789, HYDROCHLORIC ACID, 8, II	PORROPHIE
14.5	ADR/RID (EU):	UN1789, HYDROCHLORIC ACID, 8, II	CURRUSIVE
14.6	SCT (MEXICO):	UN1789, HYDROCHLORIC ACID, 8, II	***
14.7	ADGR (AUS):	UN1789, HYDROCHLORIC ACID, 8, II	
			<u> </u>
		15. REGULATORY I	NFORMATION
15.1	SARA Reporting Requirements:		e subject to SARA Title III, Section 313 reporting requirements.
15.2	SARA TPQ:	NA The components of this product are listed on the Ti	CCA Inventory
15.3 15.4	TSCA Inventory Status:	The components of this product are listed on the Ta	SCA Inventory.
15.4	CERCLA Reportable Quantity:	Hydrogen chloride: 5,000 lbs (2,267 kg)	
15.5	Other Federal Requirements:	NA	
15.6	Other Canadian Regulations:	This product has been classified according to the all of the information required by the CPR. The com None of the components of this product are listed o (Materials Causing Other Toxic Effects).	
15.7	State Regulatory Information:	Hydrochloric Acid is found on the following state or Hazardous Substances List (MN), Pennsylvania Rig	iteria lists: Massachusetts Hazardous Substances List (MA), Minnesota ht-to-Know List (PA), and Washington Permissible Exposures List (WA).
		criteria lists: California Proposition 65 (CA65), Del (FL), Massachusetts Hazardous Substances List Substances List (MN), New Jersey Right-to-Know L to-Know List (PA), Washington Permissible Exposu	oncentration of 1.0% or greater, are listed on any of the following state aware Air Quality Management List (DE), Florida Toxic Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous ist (NJ), New York Hazardous Substances List (NY), Pennsylvania Rightres List (WA), Wisconsin Hazardous Substances List (WI). This product te of California to cause cancer or other reproductive harm. For more
15.8	Other Requirements:	NA	
		16. OTHER INFO	RMATION
16.1	Other Information:	DANGER! MAY BE CORROSIVE TO METALS. RESPIRATORY IRRITATION. Use as directed. breathing mist/sprays. Wash thoroughly after han gloves/protective clothing/eye protection/face prote SKIN: Take off immediately all contaminated clothin clothing before reuse. IF INHALED: Remove persor help immediately. IF IN EYES: Rinse cautiously wit to do. Continue rinsing. Specific treatment: see sec	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY CAUSE Keep only in original packaging. Do not breathe dust or mist. Avoid dling. Use only outdoors or in a well-ventilated area. Wear protective ction. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON g. Immediately rinse with water for several minutes. Wash contaminated to fresh air and keep comfortable for breathing. Get emergency medical n water for several minutes. Remove contact lenses, if present and easy ion 4 (first aid) of this SDS. Absorb spillage to prevent material-damage. httly closed. Store locked up. Store in corrosion resistant container with
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to O government regulations must be reviewed for a Technologies' knowledge, the information contain suitability or completeness is not guaranteed and n information contained herein relates only to the sp	SHA's Hazard Communication Standard, 29 CFR §1910.1200. Other oplicability to this product. To the best of ShipMate's & Birchwood ed herein is reliable and accurate as of this date; however, accuracy, o warranties of any type, either expressed or implied, are provided. The ecific product(s). If this product(s) is combined with other materials, all hay be changed from time to time. Be sure to consult the latest edition.
16.4	Prepared for:	Birchwood Technologies 7900 Fuller Road Eden Prairie, MN 55344 USA	BIRCHWOOD
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		Fax: +1 (952) 937-7900	TECHNOLOGIES
		http://www.birchwoodtechnologies.com	
		Thttp://www.bironwoodlechinologies.com	



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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 1.0 SDS Revision Date: 2/10/2023

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





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SDS Revision Date: 2/10/2023

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

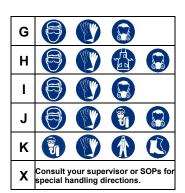
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α		
В		
С		
D		
Е		
F		





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	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 _{io} Lowest dose to cause a symptom				
TCLo Lowest concentration to cause a symptom				
TD _{Io} , LD _{Io} , & LD _o or	lo, LDio, & LDo 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	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:

0	(4)	③	(3)	\odot	®		
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			\Diamond		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment