

Page 1 of 6 **BC-005**

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards

SDS Revision: 2.1

SDS Revision Date: 10/25/2018

			ODUCT & CO								
1.1	Product Name:	SUPER BLU	JE [®] LIQUID GI	UN BLUE		ISTRIBU		nita E	7/10	O The I	Toplonado
1.2	Chemical Name:	Acid Mixture					esale Ltd. U		- / / 40		splanade
.3	Synonyms:	13425, 13432,134	87 13488 13489				wholesale.r				
.4	Trade Names:	Super Blue [®] Liquid	, ,			<u> </u>	ontact: Stev		linas		
1.5	Product Use:	Metal Finishing	Our blue			303 303					
.6	Distributor's Name:	Birchwood Casey,			0274	905 708					
.0	Distributor's Address:		re, New Hope, MN., 5	5427 1194	Poisc	n Contro	1 0800 POI	SON ((0800 7	64 766)	
.8	Emergency Phone:		800) 424-9300 / +1		97 or Poi	con Co	ntrol Con	tor +	1 (966)	201 7	152
.9	Business Phone / Fax:	+1 (952) 388-6717		(703) 527-30		5011 C 0	ntroi cen	ter +	1 (000)	291-1	192
		11 (332) 300-07 17									
			2. HAZARD	S IDENTI	FICATI	ON					
2.1	Hazard Identification:		assified as a hazardo 004)] and ADG Code (and as da	ngerous	goods acco	ording	to the	classifi	cation criteria
		DAMAGE. TOXIC	NTENSIFY FIRE; OX > IF INHALED. HARM	MFUL TO AQU	JATIC LIFE	WITH L					IRNS AND E
	Label Flowerter		Liq. 3; Acute Tox. 3;								
2.2	Label Elements:		t <u>s</u> (H): H272 – May i in burns and eye dar g effects								\wedge
		and other ignition materials. P260 – with soap and wat	tements (P): P210 – sources. No smokin Do not breathe dust o er thoroughly after ha	ig. P220 - Ќee or mist. P261 - andling. P270 -	ep away fro – Avoid bre – Do not ea	m clothir athing fu it, drink, c	ng and othe me/vapors or smoke w	er con P264 hen u	nbustibl – Was sing thi	e h is	
.3	Other Warnings:	environment. P28 P301+P310 - IF S Specific treatmen mouth. P303+P36 Rinse skin with wa - IF INHALED: R Poison Center +1 water for several P370+P378 - In c extinguish. P391 - tightly closed. P4 waste disposal pla	exposure or medical	gloves/ protect liately call a P4 label and sec N (or hair): Ta 3 – Wash con sh air and kec r. P305+P351 ontact lenses i xtinguishing m 03+P233 – Sto p. P501 - Dis inquiry involv	tive clothing OISON CE ction 4 First ke off imm taminated of ep comforta +P338 – IF fi present a nedia appro- pre in a wel pose of co- ing this pro-	g/ eye pr NTER or t Aid of ediately a clothing t able for I able for I T IN EYE and easy priate for -ventilate ntents/ c	rotection/ fa doctor/physic this SDS. all contamir before reuse breathing. F ES: Rinse of to do. Con to to do. Con to surroundir ed place. K container to	ice pr sician P330 nated e. P30 P311 caution ntinue ng ma (eep c n an a	otectior P321 - Rins clothing 04+P34 - Call usly wit e rinsing terials t containe approve	n. e g. 0 a h h g. o o er d	I poison cont
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HEM /ATE ELE ITRI UPR	ICAL NAME(S) ER NIOUS ACID C ACID	environment. P28 P301+P310 - IF S Specific treatmen mouth. P303+P36 Rinse skin with wa - IF INHALED: Rv Poison Center +1 water for several P370+P378 - In c extinguish. P391 - tightly closed. P4 waste disposal plat In the event of an center, who may s KEEP OUT OF RE 3. COM CAS No. RTE 7783-00-8 VS Acute Tox. 3; Acute 7697-37-2 QU Ox. Liq. 3; Skin Con 10031-43-3 NA Acute Tox. 4; Skin	0 - Wear protective Q WALLOWED: Immed ts see this container 1+P353 – IF ON SKI ater [or shower]. P36 emove person to fres -866-291-7152/doctor minutes. Remove co ase of fire: Use fire-e - Collect spillage. P40 05 – Store locked up ant. exposure or medical eek advice from the U EACH OF CHILDREN POSITION & II ACH OF CHILDREN POSITION 231-791-2 7175000 231-974-7 Tox. 3; Aquatic Acute 1 5775000 231-714-2 T. 1A; H272, H314	gloves/ protect liately call a P4 label and sec N (or hair): Ta 3 – Wash con sh air and kee r. P305+P351 ontact lenses i xtinguishing m 03+P233 – Stc p. P501 - Dis inquiry involv J.S. manufactu J.S. ma	tive clothing OISON CE ction 4 Firs ke off imm taminated of ep comforta +P338 – IF f present a redia appro- pre in a wel pose of co- ing this pro- urer, and sh ENT INF ACGIH ppm TLV STEL NE NE (0.2) NA c; H301, H33 2 4	g/ eye pr NTER or t Aid of ediately a clothing t able for I F IN EYE able for I F IN EYE able for I F IN EYE ow them CORM CORM NF (0.2) 11, H400, 2 NF	rotection/ fa doctor/physic this SDS. all contamin pefore reuses breathing. F ES: Rinse of to do. Con r surroundir ed place. K container to pase contac this SDS. ATION EXPOSURE L OHSC ppm ES- ES- ES- ES- ES- ES- ES- ES- ES- ES-	Interest of the second	otectior P321 - Rins clothing 04+P34 - Call usly wite erinsing terials t containe approve NAIR (main STEL NE NA	n. e e g. 0 a h j. 0 a a b 1 0 a a b 1 0 a b 1 0 a b 1 0 a b 1 0 0 a b 1 0 0 a b 1 0 0 0 0 0 0 0 0 0 0 0 0 0	



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			4. FIRST AID MEASURES				
4.1	First Aid:	Ingestion:	DO NOT INDUCE VOMITING. Contact Poison Contro Control Center or local emergency telephone number medical attention. If vomiting occurs spontaneously, I risk of aspiration.	for assistance keep victim's he	and instructed	tions. Seek (forward) to	immediate reduce the
		<u>Eyes</u> :	If product gets in the eyes, flush eyes thoroughly with holding eyelid(s) open to ensure complete flushing. following use, consult a physician or emergency room	If the eyes			
		<u>Skin</u> :	Remove contaminated clothing and wash affected a and/or the skin reaction worsens, contact a physiciar until after it has been properly cleaned.	reas with soap			
		Inhalation:	Remove victim to fresh air at once. Under extrem respiration. Seek immediate medical attention.	ie conditions, i	f breathing	stops, perfo	rm artificia
4.2	Effects of Exposure:	<u>Eyes</u> : <u>Skin</u> : Ingestion:	Severe or permanent eye damage. Burns upon direct contact. Severe burns of mouth, throat, stomach.				
		Inhalation:	Severe irritation or burns in respiratory tract and muco	us membranes.	Possible Iu	ing damage.	
4.3	Symptoms of Overexposure:	<u>Eyes</u> : <u>Skin</u> : Ingestion:	Redness, burning, irritation, and swelling around eyes Redness, burning, itching, rash, blistering of skin. Nausea, vomiting, severe abdominal pain.				
4.4	Acute Health Effects:		Coughing, wheezing, swelling of throat, irritation in mu mful if inhaled. Material is extremely destructive to th ract. May be harmful if swallowed. Causes burns. May be	ne tissue of th	e mucous	membranes	and upper
4.5	Chronic Health Effects:		the nervous system, kidney and/or liver.				
4.6	Target Organs:	, ,	Nervous System, Kidneys, Liver, Respiratory System				
4.7	Medical Conditions Aggravated by Exposure:	organs (eyes	dermatitis, other skin conditions, and disorders of the tar s, skin, and respiratory system) or impaired kidney funct e susceptible to the effects of this substance.	ion FLAMM PHYSIC			3 0 2 H
4.8	Notes to Physician:	should be co	contains <u>Selenious Acid</u> and is potentially fatal if ingen onsidered in asymptomatic or minimally symptomatic painulti-organ failure may occur. 24/7 medical toxicology cor	ested even in s tients as delaye	small amou ed toxic effe	nts. 24-hou ects including	r admissior pulmonary
			5. FIREFIGHTING MEASURES				
5.1	Fire & Explosion Hazards:		ble. May react with metals to release hydrogen gas, wh / intensity fire; oxidizer.	ich can form e	xplosive mi	xtures	
5.2	Extinguishing Methods:		guishing media appropriate for surrounding materials.				
5.3	Firefighting Procedures:	approved or as for surro degradation and/or deriva the fire is ou	fire, firefighters should wear appropriate protective equip equivalent self-contained breathing apparatus (SCBA) a bunding materials. Hazardous decomposition produc may produce oxides of carbon, phosphorous, selenium atives. Fire should be fought from a safe distance. Kee ut. Use water spray to cool fire-exposed surfaces and vent runoff from fire control or dilution from entering sewe al waterway.	nd protective cl cts may be re n and/or nitrog p containers co l to protect per	othing. Figh eleased. Th en, hydroca ool until wel rsonal. Fig	t fires lermal irbons l after ht fire	2
			6. ACCIDENTAL RELEASE MEASU	RES			
6.1	Spills:	Before clean Equipment (I apron, boots, <u>Small Spills:</u> inert material <u>Large Spills:</u> or release. I	hing any spill or leak, individuals involved in spill clear PPE). Use safety glasses or safety goggles and face sh , etc.) to prevent skin contact. Wear appropriate protective equipment including gloves I such as vermiculite or sand to soak up the product and p Keep incompatible materials (e.g., organics such as oil solate immediate hazard area and keep unauthorized pe inimal risk. Wear appropriate protective equipment incl	anup must wea ield; use gloves and protective blace into a con) away from sp rsonnel out of a	s and other eyewear. tainer for lat ill. Stay upv rea. Stop s	protective clo Use a non-c ter disposal. wind and awa pill or release	othing (e.g., ombustible, ay from spil e if it can be



SAFETY DATA SHEET

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		7. HANDLING									
7.1	Work & Hygiene Practices:	Avoid breathing mists or spray. <i>A</i> of the reach of children. Do not expose to heat and flame. Use decontaminate any spills or resid	eat, drink o only in ve	or smoke	when han	dling this	product.	Wash th	oroughly	after ha	ndling. Do
7.2	Storage & Handling:	Use and store in a cool, dry, w sunlight. Store in acid-resistant (120 °F). Keep away from incon	vell-ventilat containers	. Keep c	ontainers	covered	when not i	n use. A	void tem	peratures	s above 40
.3	Special Precautions:	Empty containers may retain haz				- /			17		5
	1		•								
		8. EXPOSURE CON	TROLS	6 & PE	RSON	AL PF	ROTEC	TION			
.1	Exposure Limits:			GIH		NOHSC			OSHA		OTHER
	ppm (mg/m ³)	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	
		SELENIOUS ACID	(0.2)	NA	(0.2)	NF	NF	(0.2)	NA	NA	
			2	4	2	4	NF	2	NA	25	
			1	NA	NF	NF	NF	1	NA	NA	-
.2	Ventilation & Engineering		1	NA	NF	NF	NF	1	NA	NA	at a d fue we
.2	Controls:	Use local or general exhaust ve handling of this product. Ensure station).									
.3	Respiratory Protection:	use only protection authorized by	In instances where vapors or sprays of this product are generated, and 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								
.4	Eye Protection:	Safety glasses with side shields shield is also recommended.	must be u	used whe	en handling	g or usin	g this proc	duct. A j	protective	e face	96
.5	Hand Protection:	Wear protective, chemical-resista	ant gloves	(e.g., neo	oprene) wł	nen using	or handlir	ng this pr	oduct.		
8.6	Body Protection:	A chemical resistant apron and product.	/or protect	ive cloth	ing are re	commen	ded when	handling) or usin	g this	
		9. PHYSICAL	_ & CH	EMIC	AL PRO	OPER	TIES				
9.1	Appearance:	Blue liquid									
.2	Odor:	Odorless									
.3	Odor Threshold:	0.29 to 0.98 ppm (Nitric Acid)									
.4	pH:	1.0									
.5	Melting Point/Freezing Point:	NA									
.6	Initial Boiling Point/Boiling Range:	> 100 °C (> 214 °F)									
.7	Flashpoint:	NA									
.8	Upper/Lower Flammability Limits:	NA									
.9	Vapor Pressure:	NA									
.10	Vapor Density:	< 1.0 (Air = 1.0)									
11	Relative Density:	1.080									
	Solubility:	Soluble									
.12	Partition Coefficient (log Pow):	NA									
.12 .13	Partition Coefficient (log P _{ow}): Autoignition Temperature:	NA									
9.12 9.13 9.14											
 0.12 0.13 0.14 0.15 0.16 	Autoignition Temperature:	NA									
.12 .13 .14 .15	Autoignition Temperature: Decomposition Temperature:	NA NA	her = 1.0)								

	10. STABILITY & REACTIVITY					
10.1	Stability:	Stable at normal temperatures.				
10.2	Hazardous Decomposition Products:	Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenide. Thermal decomposition may produce selenium, nitrogen, phosphoric and copper oxides.				
10.3	Hazardous Polymerization:	Will not occur.				
10.4	Conditions to Avoid:	Excessive heat, shock, friction.				
10.5	Incompatible Substances:	Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustible organic materials, most metals.				



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		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: YES
1.2	Toxicity Data:	<u>Cupric Nitrate</u> : LD ₅₀ (oral, rat) = 794 mg/kg. <u>Phosphoric Acid</u> : LD ₅₀ (oral, rat) = 1,530 mg/kg.
1.3	Acute Toxicity:	See Section 4.4
1.4	Chronic Toxicity:	See Section 4.5
1.5	Suspected Carcinogen:	Components in this product are listed by IARC as Group 3 (Not classifiable as to its carcinogenicity to humans). Cupric Nitrate is IARC Group 2A: Probably carcinogenic to humans.
1.6	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.
1.7	Irritancy of Product:	See Section 4.2
1.8	Biological Exposure Indices:	NE
11.9	Physician Recommendations:	Treat symptomatically.
		12. ECOLOGICAL INFORMATION
2.1	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:	Very toxic to aquatic life with long lasting effects. Phosphoric Acid: EC ₅₀ (Daphnia magna, 12h) = 4.6 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 appropriate agency for specific information. Treatment, transport, storage
2.2	Special Considerations:	disposal of hazardous waste must be provided by a licensed facility or waste hauler.
3.2	Special Considerations:	U.S. EPA Hazardous Waste – Characteristic - Corrosive (D002), Characteristic - Toxic (D010)
he l	basic description (ID Number,	14. TRANSPORTATION INFORMATION , proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information
may 4.1	be required by 49 CFR, IATA/ 49 CFR (GND):	/ICAO, IMDG and the CTDGR.
4.1	49 CFR (GND).	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, II (IP VOL ≤ 1.0 L LTD QTY), or CONSUMER COMMODITY, ORM-D (UNTIL 12/31/20)
4.2	IATA (AIR)*:	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8,II, (IP VOL ≤ 0.1 L LTD QTY)
4.3	IMDG (OCN):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, II (IP VOL ≤ 1.0 L LTD QTY)
4.4	TDGR (Canadian GND):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, II (IP VOL ≤ 1.0 L LTD QTY)
4.5	ADR/RID (EU):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, II (IP VOL ≤ 1.0 L LTD QTY)
4.6	SCT (MEXICO):	UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO NITRICO), 8, II (IP VOL ≤ 1.0 L CANTIDAD LIMITADA ()
4.7	ADGR (AUS):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, II (IP VOL \leq 1.0 L , LTD QTY)
		15. REGULATORY INFORMATION HSR002634
		15. REGULATORT INFORMATION HOROZOG
15.1	SARA Reporting Requirements:	This product contains <u>Nitric Acid</u> , <u>Cupric Sulfate</u> and <u>Selenious Acid</u> , substances subject to SARA Title III, Sectio reporting requirements.
		This product contains <u>Nitric Acid</u> , <u>Cupric Sulfate</u> and <u>Selenious Acid</u> , substances subject to SARA Title III, Sectio reporting requirements.
5.2	Requirements:	This product contains Nitric Acid, Cupric Sulfate and Selenious Acid, substances subject to SARA Title III, Sectio reporting requirements. 302 TPQ (Nitric Acid): 1,000 lbs (454 kg)
5.2 5.3	Requirements: SARA TPQ: TSCA Inventory Status:	This product contains Nitric Acid, Cupric Sulfate and Selenious Acid, substances subject to SARA Title III, Section reporting requirements. 302 TPQ (Nitric Acid): 1,000 lbs (454 kg) The components of this product are listed on the TSCA Inventory.
15.2 15.3 15.4	Requirements: SARA TPQ: TSCA Inventory Status: CERCLA Reportable Quantity:	This product contains <u>Nitric Acid, Cupric Sulfate</u> and <u>Selenious Acid</u> , substances subject to SARA Title III, Sectio reporting requirements. 302 TPQ (Nitric Acid): 1,000 lbs (454 kg) The components of this product are listed on the TSCA Inventory. Selenious Acid: 10 lbs (4.54 kg); <u>Nitric Acid</u> : 1,000 lbs (454 kg); <u>Cupric Sulfate</u> : 10 lbs (4.54 kg)
15.1 15.2 15.3 15.4 15.5 15.6	Requirements: SARA TPQ: TSCA Inventory Status:	This product contains Nitric Acid, Cupric Sulfate and Selenious Acid, substances subject to SARA Title III, Section reporting requirements. 302 TPQ (Nitric Acid): 1,000 lbs (454 kg) The components of this product are listed on the TSCA Inventory.



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 2.1 SDS Revision Date: 10/25/2018 15. REGULATORY INFORMATION – cont'd 15.7 State Regulatory Information: Selenious Acid is found on the following state criteria lists: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), Pennsylvania Right-to-Know List (PA), and Wisconsin Hazardous Substances List (WI). Nitric Acid is found on the following state criteria lists: FL. MA. MN. NJ. PA. and WA. Cupric nitrate is found on the following sate criteria list: MA, PA and NJ. 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) 15.8 Other Requirements: 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 **16. OTHER INFORMATION** SW revised 30.12.2020 DANGER! MAY INTENSIFY FIRE; OXIDIZER. TOXIC IF SWALLOWED. CAUSES SEVERE SKIN BURNS AND EYE 16.1 Other Information: DAMAGE, TOXIC IF INHALED, HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS. 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 fume/vapors. Wash with soap and water thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Specific treatments see this container label and section 4 First Aid of this SDS. Rinse mouth. 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. Call a Poison Center +1-866-291-7152/doctor. 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 fireextinguishing media appropriate for surrounding materials to extinguish. Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Store locked up. KEEP LOCKED UP AND OUT OF REACH OF CHILDREN. See last page of this Safety Data Sheet 16.2 Terms & Definitions 16.3 Disclaimer 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 Casey, LLC 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. 16.4 Prepared for: **Birchwood Casey, LLC** BIRCHWOOD 3260 Winpark Drive New Hope, MN 55427 USA Tel: +1 (952) 388-6717 FASE Email: customerservice@birchwoodcasey.com http://www.birchwoodCasey.com 16.5 Prepared by: ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 angerous Goods Fax: +1 (310) 370-5700 Training & Consulting http://www.shipmate.com



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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:

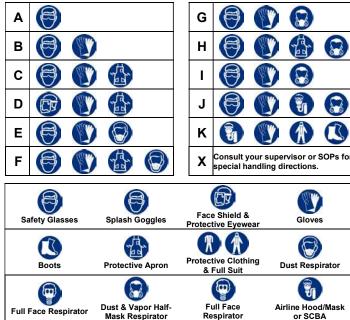
CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

PERSONAL PROTECTION RATINGS:



OTHER STANDARD ABBREVIATIONS:

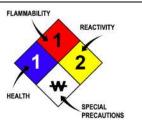
Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABIL	ITY LIMITS IN AIR:
Autoignition	Minimum temperature required to initiate combustion in air with no other source
Temperature	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	FLAM
1	Slight Hazard	FLA
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/
W	Use No Water	HEAL
OX	Oxidizer	
TREFOIL	Radioactive	



TOXICOLOGICAL INFORMATION:

LD 50	LD ₅₀ Lethal Dose (solids & liquids) which kills 50% of the exposed animals			
LC 50	LC 50 Lethal concentration (gases) which kills 50% of the exposed animal			
ppm	ppm Concentration expressed in parts of material per million parts			
TD _{Io}	Lowest dose to cause a symptom			
TCLo	CLo Lowest concentration to cause a symptom			
TD ₁₀ , LD ₁₀ , & LD ₀ or	Lowest dose (or concentration) to cause lethal or toxic effects			
TC, TC ₀ , LC ₁₀ , & LC ₀				
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 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:

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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:

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