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SAFETY DATA SHEET

Page 1 of 6 **BC-003**

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 1.0

SDS Revision Date: 6/24/2014

	1. PRODUCT & COMPANY IDENTIFICATION				
1.1	Product Name:	PERMA BLUE [®] LIQUID GUN BLUE			
1.2	Chemical Name:	Acid Mixture			
1.3	Synonyms:	13125, 13132, 53000			
1.4	Trade Names:	Perma Blue [®] Liquid Gun Blue			
1.5	Product Use:	Metal Finishing			
1.6	Distributor's Name:	Birchwood Casey.			

			2. H	AZARDS I	DENT	IFIC/	ΑΤΙΟ)N						
2.1	Hazard Identification:	classification of DANGER! M MAY CAUSE LONG LASTII Hazard Stater Causes sever life with long la Precautionary other ignition materials. P2/ handling. P27 in a well-ventil protective clot a POISON CE section 4 First to fresh air a – In case of fii P391 – Colled	is classified at criteria of [NOH AY INTENSIF SEVERE SKIN NG EFFECTS. <u>ments</u> (H): H2: e skin burns ar asting effects. <u>Statements</u> (F sources. No 61 – Avoid brei conto eat hing/ eye prote ching/ eye prot	s a hazardous SC: 1088 (2004 Y FIRE; OXIDI N BURNS OR E 72 – May inten d eye damage. 9): P210 – Keep smoking. P2 athing fume/vag drink, or smok 73 – Avoid rele ction/ face protection face protection. SC. P330 – Rin fortable for br inguishing med 403+P233 – St	substanc 4)] and AE ZER. TO SYE DAM/ Sify fire; of H331 – away fro 220 Keep Dors. P26 awe to the ection. P3 P321 – Si P321 – Si P3	e and OG Cod XIC IF AGE. 1 AGE. 1 AGE. 1 Dividizer Toxic if m heat away 4 – Wa sing thi e envirc 301+P3 becific . P304 P311 riate fo well-vel	as da e (Aus SWA /ERY : H30 inhale , hot s from sh witi s prod onment 310 - If treatm I+P340 – Ca r surro ntilated	ngerou stralia). LLOW TOXIC 01 – To ed H urfaces clothir h soap uct. P28 Clothir h soap uct. P28 SWA ents so 0 – IF I III a Po punding d place	ED TO A oxic if 410 – s, span and v 271 – 0 - We LLOW ee this NHAL oison y mate e. Kee	swallc Very to ks, op d othe vater th Use or ear pro 'ED: Im conta .ED: R Cente rials to p cont	IF INI IC LIF owed. oxic to en flar r com oroug hly out tective media iner la emove r. P37 o extin ainer t	HALE E WII H314 aqua nes au bustik hly aft doors glove ately c abel au perso 70+P3 guish. ightly	D. FH tic and er or os/ all and on 78	
		disposal plant		l up. P501 - Di	spose of o	content	s/ con	tainer t	o an a	ipprove	ed was	ste		
2.2	Effects of Exposure:	<u>Eyes</u> : <u>Skin</u> : Ingestion:	Severe or per Burns upon d Severe burns	of mouth, throa	at, stomac								I	
	0	Inhalation:		on or burns in re					nembra	anes.	Possib	le lun	g dama	ge.
2.3	Symptoms of Overexposure:	<u>Eyes</u> : <u>Skin</u> : <u>Ingestion</u> : <u>Inhalation</u> :	Redness, bur Nausea, vom Coughing, wh	ning, irritation, a ning, itching, ra iting, severe ab ieezing, swelling	sh, blister dominal p g of throat	ing of s ain. ., irritati	kin. on in r	nucous						
2.4	Acute Health Effects:			aterial is extrem owed. Causes								brane	s and u	oper respirato
2.5	Chronic Health Effects:	May damage t	he nervous sys	stem, kidney an	d/or liver.	-								
2.6	Target Organs:	Eyes, skin, ne	rvous system,	kidneys, liver, re	espiratory	system	۱.							
		3. C	OMPOSIT	ION & INC	GREDI	ENT	INF	ORN	IAT	ON				
		_						-	EXPO	SURE LI	MITS IN	AIR (m	g/m³)	
						AC	GIH		NOHSC			OSHA		
						рр	m		ppm			ppm		
		CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	TLV	STEL	IDLH	OTHER
	CAL NAME(S)	7732-18-5	ZC0110000	231-791-2	60-100	NE	NE	NF	NF	NF	NE	NE	NE	OTHER
/ATE	R	1102-10-5	200110000	201701-2	00-100			141	111	141				
		7783-00-8	VS7175000	231-974-7	1-5	(0.2)	NA	(0.2)	NF	NF	(0.2)	NA	NA	
ELE	NIOUS ACID			quatic Acute 1; Ac							(0.2)			
		7697-37-2	QU5775000	231-714-2	1-3	2	4	2	4	NF	2	NA	25	
IIRI	C ACID		kin Corr. 1A; H27											
					5.40	(4)	NLA		NIE	NE	(4)	N.L.A	1000	
	IC SULFATE	7758-99-8	NA	NA	5-10	(1)	NA	NF	NF	NF	(1)	NA	1000	



Page 2 of 6 **BC-003**

			1						
repa	ared to OSHA, ACC, ANSI, I	NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards	SDS Revisi	on: 1.0	SDS Revis	sion Date: 6/24	2014		
		4. FIRST AID ME	ASURES						
1	First Aid:	Ingestion: DO NOT INDUCE VOMITING. Control Control Center or local emergency to medical attention. If vomiting occurs risk of aspiration. Eyes: If product gets in the eyes, flush eye If product gets in the eyes, flush eye	act Poison Control elephone number f spontaneously, ke s thoroughly with c	or assistance p victim's opious amo	ce and instru head lowered ounts of wate	ictions. See d (forward) to r for at least	o reduce th 15 minute		
		holding eyelid(s) open to ensure compuse, consult a physician or emergence Skin: Remove contaminated clothing and and/or the skin reaction worsens, con after it has been properly cleaned.	y room immediately wash affected are	as with soa	ap and wate	r. If discom	fort persis		
		Inhalation: Remove victim to fresh air at once respiration. Seek immediate medical		conditions,	if breathing	g stops, perf	orm artific		
4.2	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions, and target organs (eyes, skin, and respiratory system) of function may be more susceptible to the effects of the	or impaired kidney	HEALTH FLAMMA			3		
							2		
				EYES	TIVE EQUII		<u> </u> H		
				EIES	SKIN	LUNGS			
		5. FIREFIGHTING M	IEASURES						
	Fire & Explosion Hazards:	Non-flammable. May react with metals to release hy with air. May intensity fire; oxidizer.	/drogen gas, which	can form ex	kplosive mixtu	ures			
	Extinguishing Methods:	Use fire-extinguishing media appropriate for surrour	nding materials.						
	Firefighting Procedures:	As with any fire, firefighters should wear ap MSHA/NIOSH approved or equivalent self-contain clothing. Fight fires as for surrounding materials.	propriate protective ed breathing appar Hazardous deco	atus (SCBA	A) and protect	tive 3	0 2		
ĵ	Firefighting Procedures:	As with any fire, firefighters should wear ap MSHA/NIOSH approved or equivalent self-contain	ppropriate protectived breathing appar Hazardous deco des of carbon, pho hould be fought fro vater spray to cool to noff from fire contri	atus (SCBA mposition p osphorous, om a safe fire-exposed	A) and proted products may selenium an distance. K d surfaces an	ctive v be id/or Keep id to	0 2		
3	Firefighting Procedures:	As with any fire, firefighters should wear ap MSHA/NIOSH approved or equivalent self-contain clothing. Fight fires as for surrounding materials. released. Thermal degradation may produce oxid nitrogen, hydrocarbons and/or derivatives. Fire sl containers cool until well after the fire is out. Use v protect personal. Fight fire upwind. Prevent run sewers, drains, drinking water supply, or any natura	ppropriate protectived breathing appar Hazardous deco des of carbon, pho hould be fought fro vater spray to cool the noff from fire control waterway.	ratus (SCBA mposition p osphorous, om a safe fire-exposed rol or dilutio	A) and proted products may selenium an distance. K d surfaces an	ctive v be id/or Keep id to	0 2		
• 	Spills:	As with any fire, firefighters should wear ap MSHA/NIOSH approved or equivalent self-contain clothing. Fight fires as for surrounding materials. released. Thermal degradation may produce oxid nitrogen, hydrocarbons and/or derivatives. Fire sl containers cool until well after the fire is out. Use v protect personal. Fight fire upwind. Prevent run	propriate protectived breathing appar Hazardous deco des of carbon, pro- hould be fought fro- vater spray to cool the noff from fire contro- al waterway. SE MEASUF olved in spill clear ggles and face shiel the including gloves a	atus (SCB/ mposition p posphorous, om a safe fire-exposed rol or dilution RES hup must v eld; use glov and protecti	 A) and protection b) and protection b) and protection b) and protection c) and protection<	tive be dd/or keep dd to ring riate Persona r protective c Use a non-i	othing (e.		
		As with any fire, firefighters should wear ap MSHA/NIOSH approved or equivalent self-contain clothing. Fight fires as for surrounding materials. released. Thermal degradation may produce oxid nitrogen, hydrocarbons and/or derivatives. Fire sl containers cool until well after the fire is out. Use v protect personal. Fight fire upwind. Prevent run sewers, drains, drinking water supply, or any natura 6. ACCIDENTAL RELEA Before cleaning any spill or leak, individuals inv Equipment (PPE). Use safety glasses or safety go apron, boots, etc.) to prevent skin contact. <u>Small Spills</u> : Wear appropriate protective equipmer	propriate protectived breathing appar Hazardous deco des of carbon, pho hould be fought fir vater spray to cool to noff from fire contri il waterway. SE MEASUF olved in spill clear ggles and face shift to the product and pl ganics such as oil) a op unauthorized per tive equipment inclut t in acid-resistant co	atus (SCB/ mposition p posphorous, orm a safe fire-exposed or dilution RES nup must v eld; use glov and protecti ace into a c away from s rsonnel out uding respir	A) and protect products may selenium an distance. K d surfaces an on from ente vear approprives and other ve eyewear. ontainer for la spill. Stay up of area. Sto atory protecti	tive be d/or keep d to bring tiate Persona r protective c Use a non-d ater disposal. wwind and aw p spill or rele on as conditi	othing (e. combustib ay from sp ease if it c ons warra		
		As with any fire, firefighters should wear ap MSHA/NIOSH approved or equivalent self-contain clothing. Fight fires as for surrounding materials. released. Thermal degradation may produce oxid nitrogen, hydrocarbons and/or derivatives. Fire sl containers cool until well after the fire is out. Use v protect personal. Fight fire upwind. Prevent run sewers, drains, drinking water supply, or any natura 6. ACCIDENTAL RELEA Before cleaning any spill or leak, individuals inv Equipment (PPE). Use safety glasses or safety go apron, boots, etc.) to prevent skin contact. <u>Small Spills</u> : Wear appropriate protective equipmerr inert material such as vermiculite or sand to soak up <u>Large Spills</u> : Keep incompatible materials (e.g., org or release. Isolate immediate hazard area and kee be done with minimal risk. Wear appropriate protect Recover as much free liquid as possible and collect	propriate protectived breathing appar Hazardous deco des of carbon, pho hould be fought fir vater spray to cool to noff from fire contri I waterway. SE MEASUF olved in spill clear ggles and face shift to the product and pl ganics such as oil) a punauthorized per tive equipment inclu- tin acid-resistant co aters.	atus (SCB/ mposition p psphorous, om a safe fire-exposed of or dilution RES nup must v eld; use glov and protecti ace into a c away from s rsonnel out uding respir ontainer. Us	A) and protect products may selenium an distance. K d surfaces an on from ente vear approprives and other ve eyewear. ontainer for la spill. Stay up of area. Sto atory protecti	tive be d/or keep d to bring tiate Persona r protective c Use a non-d ater disposal. wwind and aw p spill or rele on as conditi	othing (e., combustib ay from sp ease if it ca ons warra		
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Teratogenicity:

11.7

11.8

11.9

Reproductive Toxicity:

Biological Exposure Indices:

Physician Recommendations:

Irritancy of Product:

SAFETY DATA SHEET

Page 3 of 6 **BC-003**

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 1.0 SDS F

SDS Revision Date: 6/24/2014

		8. EXPOSURE CONTROLS & PERSONAL PROTECTION
8.1	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).
8.2	Respiratory Protection:	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.
8.3	Eye Protection:	Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended.
8.4	Hand Protection:	Wear protective, chemical-resistant gloves (e.g., neoprene) when using or handling this product.
8.5	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:	Viscous blue liquid
9.2	Odor:	Odorless
9.3	Odor Threshold:	0.29 to 0.98 ppm (Nitric Acid)
9.4	pH:	1.0
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	> 100 °C (> 212 °F)
9.7	Flashpoint:	Wax: 207 °C (405 °F) COC
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	< 1.0 (air = 1.0)
9.11	Relative Density:	1.034
9.12	Solubility:	Soluble
9.13	Partition Coefficient (log Pow):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	Evaporation Rate: < 1.0 (ethyl ether = 1.0)
40.4	Ot-Lillton	10. STABILITY & REACTIVITY
10.1 10.2	Stability: Hazardous Decomposition	Stable at normal temperatures. Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenide. Therm
	Products:	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 organ materials, most metals.
		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: YES
11.2	Toxicity Data:	Cupric Sulfate: LD ₅₀ (oral, rat) = 300 mg/kg
11.3	Acute Toxicity:	See Section 2.4
11.4	Chronic Toxicity:	See Section 2.5
11.5	Suspected Carcinogen:	Components in this product are listed by IARC as Group 3 (Not classifiable as to its carcinogenicity to humans)
11.6	Reproductive Toxicity:	This product is not reported to cause reproductive toxicity in humans.
	Mutagenicity: Embryotoxicity:	This product is not reported to produce mutagenic effects in humans.
		This product is not reported to produce embryotoxic effects in humans.

This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans.

See Section 2.3

Treat symptomatically.

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Page 4 of 6 BC-003

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 6/24/2014 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: No data available. 12.2 Effects on Plants & Animals: No data available. Effects on Aquatic Life: Very toxic to aquatic life with long lasting effects. Phosphoric Acid: EC₅₀ (Daphnia magna, 12h) = 4.6 mg/L 12.3 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 2. Any disposal practice must be in compliance with local, state, 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 Hazardous Waste - Characteristic - Corrosive (D002), Characteristic - Toxic (D010) **14. TRANSPORTATION INFORMATION** 49 CFR (GND): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC 14.1 ACID), 8, II, LTD QTY (IP VOL \leq 1.0 L) CONSUMER COMMODITY; EXCEPTED QUANTITY 14.2 IATA (AIR): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, II, LTD QTY (IP VOL \leq 0.1 L) 14.3 IMDG (OCN): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, II, LTD QTY (IP VOL \leq 1.0 L) EXCEPTED QUANTITY 14.4 TDGR (Canadian GND): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, II, LTD QTY (IP VOL \leq 1.0 L) ADR/RID (EU): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC 14.5 ACID), 8, II, LTD QTY (IP VOL \leq 1.0 L) EXCEPTED QUANTITY 14.6 SCT (MEXICO): UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO NITRICO), 8, II, CANTIDAD LIMITADA (IP VOL ≤ 1.0 L) 14.7 ADGR (AUS): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, II, LTD QTY (IP VOL \leq 1.0 L) EXCEPTED QUANTITY * This product may also be shipped as an Excepted Quantity (Inner Package Volume ≤ 30 mL, Total Quantity ≤ 500 mL per Outer Package) **15. REGULATORY INFORMATION** 15.1 SARA Reporting Requirements: This product contains Nitric Acid, Cupric Sulfate and Selenious Acid, substances subject to SARA Title III, section 313 reporting requirements. SARA Threshold 302 TPQ (Nitric Acid): 1.000 lbs (454 kg) 15.2 Planning Quantity 15.3 TSCA Inventory Status: The components of this product are listed on the TSCA Inventory. 15.4 CERCLA Reportable Quantity Selenious Acid: 10 lbs (4.54 kg); Nitric Acid: 1,000 lbs (454 kg); Cupric Sulfate: 10 lbs (4.54 kg) (RQ): 15.5 Other Federal Requirements: NA 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. 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 (Corrosive Material). WHMIS Class D1 (Materials Causing Immediate and Serious Toxic Effects) 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, New Jersey Right-to-Know List (NJ), 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).



Page 5 of 6 **BC-003**

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SDS Revision: 1.0

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		15. REGULATORY INFORMATION – cont'd
15.8	Other Requirements:	The primary components of this product are listed in Annex I of EU Directive 67/548/EEC. Selenious Acid: Corrosive (C), Toxic (T). Risk Phrases (R): R35 – Causes severe burns. Safety Phrases (S): S1/2-7/9-24/25-26-28-46 - Keep locked up and out of the reach of children. Keep container tightly closed and in a well-ventilated place. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash with plenty of soap and warm water. If swallowed, seek medical advice immediately and show this container or label. Nitric Acid: Irritaant (Xi). Risk Phrases (R): 36/38 – Irritating to eyes and skin. Safety Phrases (S):1/2-23-26-36-45 – Keep locked up and out of reach of children. Do not breathe fumes/vapors. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. In case of accident or if you feel unwell seek medical advice immediately (show label where possible)
		16. OTHER INFORMATION
16.1	Other Information:	DANGER! May intensify fire; oxidizer. Toxic if swallowed. Toxic if inhaled. May cause severe skin burns eye damage. Very toxic to aquatic life with long lasting effects. May be fatal if swallowed or harmful if inhale Causes severe burns to eyes and skin. OXIDIZER. Keep away from heat, hot surfaces, sparks, open flames a other ignition sources. No smoking. Keep away from clothing and other combustible materials. Avoid breathi fume/vapors. Wash with soap and water thoroughly after handling. Do not eat, drink, or smoke when using th product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. KEEP LOCKED UP AN 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 & Birchwo Casey's knowledge, the information contained herein is reliable and accurate as of this date; however, accurac 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 oth materials, all component properties must be considered. Data may be changed from time to time. Be sure to cons the latest edition.
16.4	Prepared for:	BIRCHWOOD CASEY ®
16.5	Prepared by:	ShipMate Dangerous Goods Training & Consulting



Page 6 of 6 BC-003

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

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DEFINITION OF TERMS

N

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

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
TLV	Threshold Limit Value
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
IDLH	Immediately Dangerous to Life and Health

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:

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В			н				
С		E.	I	6			
D			J				
Е			κ	(B)			
F			X	Consult y for specia			
Sa	ifety Glasses	Splash Goggles		Shield & ive Eyewe	ar	Glove	s
	Boots	Synthetic Apron		tive Clothir Full Suit	ng l	Dust Resp	birator
Full F	Face Respirator	Dust & Vapor Half- Mask Respirator		III Face spirator	A	irline Hoo or SCE	

OTHER STANDARD ABBREVIATIONS:

NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus
Flam.	Flammable
Liq.	Liquid
Sol.	Solid
Tox.	Toxicity
Irrit.	Irritation
Sens.	Senitization
Ox.	Oxidizing
Corr.	Corrosion
Repr.	Reproductive (Harm)
Asp.	Aspiration
Inh.	Inhalation
Dam.	Damage
STOT SE	Specific Target Organ Toxicity – Single Exposure
STOT RE	Specific Target Organ Toxicity – Repeated Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:			
Autoignition	Minimum temperature required to initiate combustion in air with no other source		
Temperature	of ignition		
LEL			
	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
₩	Use No Water
OX	Oxidizer
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
	S
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 _{lo} , LD _{lo} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC _o , LC _{lo} , & LC _o	
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
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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

EC (67/548/EEC) INFORMATION:

		×	¥	8		×	×
С	E	F	N	0	т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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	Environ- ment

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