BIRCHWOOD

# SAFETY DATA SHEET

Page 1 of 6 BTI-028

	Technocodies											
Prep	pared to OSHA, ACC, AN	ISI, NOHSC, V	VHMIS, GHS &	1272/2008/EC	Standards	SI	OS Revision:	2.0	SD	S Revi	sion Da	ate: 3/14/2017
		1	. PRODU				IFICATI					
1.1	Product Name:		E BROWN									
1.0	Ob a mine l Name a			GEL								
1.2 1.3	Chemical Name:	Acid Mixture	54 750050									
1.3	Synonyms: Trade Names:	750050, 7500	~ /									
1.4	Product Use:	Antique Brow		oldon to obooo	loto brown o	lar on hr	ana branza					
1.6	Distributor's Name:		to achieve a gaboratories LLC		late prown co		ass, bronze,	copper				
1.7	Distributor's Address:		load, Eden Prai		1167							
1.8	Emergency Phone:		+1 (800) 424-	1		7 or Dei	oon Contra	al Cant		(055)	204 4	740
1.9	Business Phone / Fax:		<b>+1 (000) 424-</b> '-7900 / +1 (952		13) 527-300		son Contro	or Cent	er + 1	(000)	201-1	742
		11 (332) 337	-7300711 (332	.) 551-1515								
				IAZARDS								
2.1	Hazard Identification:	[NOHSC: 108 DANGER! T TO ORGANS	is classified as 38 (2004)] and A OXIC IF SWAL THROUGH PF : Acute Toxicity	ADG Code (Au LOWED. MA ROLONGED O	stralia). Y CAUSE SE PR REPEATE	VERE SI	KIN BURNS SURE.		-			
		Precautionary Do not breat smoke when gloves/ prote Rinse mouth immediately a Remove pers	Ause damage to <u>v Statements</u> (F he dust or misi- using this proc- active clothing/ b. Do NOT in all contaminated son to fresh air 5+P351+P338	<ul> <li>P): P220 - Kee</li> <li>t. P264 - Wa</li> <li>duct. P273 -</li> <li>eye protection</li> <li>nduce vomiting</li> <li>d clothing. Ring</li> <li>and keep con</li> </ul>	p/Store awa ish thorough Avoid releas n/ face prote g. P303+P3 ise skin with mfortable for	y from clo ly after h e to the ction. F 361+P353 water [or breathin	othing/ comb andling. P2 environment 301+P330+I 3 – IF ON shower]. P g. P310 –	ustible 1 70 – Do 2331 - SKIN (0 304+P3 Immedia	o not o - Wea IF SW or hai 40 – I ately c	eat, dr ar prot /ALLO r): Tal F INH/ all a p	ink or ective WED: ke off ALED: poison	
2.3	Other Warnings:	contact lense feel unwell. I locked up. P In the event	s, if present an P321 – Specific 501 - Dispose c of an exposure	d easy to do. C c treatment see of contents/ cor e or medical in	Continue rins this contain ntainer to an quiry involvir	ing. P31 er label c approved ng this pr	4 – Get med or section 4 o waste dispo oduct, pleas	ical adv of this S sal plan e conta	ice/att DS. F t. ct a pl	ention 2405 – nysicia	if you Store in or lo	
2.3	Other Warnings:	contact lense feel unwell. I locked up. P In the event center, who n	s, if present an P321 – Specific 501 - Dispose c	d easy to do. ( c treatment see of contents/ cor e or medical in e from the U.S.	Continue rins this contain ntainer to an quiry involvir manufacture	ing. P31 er label c approved ng this pr er, and sh	4 – Get med or section 4 d waste dispo oduct, pleas ow them this IFORMA	ical adv of this S sal plan e conta SDS. I	ice/att DS. F t. ct a pl <b>Keep (</b>	ention 2405 – nysicia <b>out of</b>	if you Store In or lo <b>reach</b> o	
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HEM VATE OLY VAX ELE IITRI HOS	ICAL NAME(S) ER OXYETHYLENE STEARYL DERIVATIVES PER (II) NITRATE, YDRATE NIOUS ACID C ACID SPHORIC ACID	contact lense feel unwell. I locked up. Pa In the event center, who n 3. C CAS No. 7732-18-5 9005-00-9 10031-43-3 Metal Corrosi 7783-00-8 Acute Toxicity H301, H331 7697-37-2 Oxidizing Liqu 7664-38-2 Metal Corrosi	s, if present an P321 – Specific 501 - Dispose of of an exposure may seek advice COMPOSIC COMPOSIC CO	d easy to do. ( c treatment see of contents/ cor e or medical in e from the U.S. TION & IN EINECS No. 231-791-2 500-017-8 221-838-5 ion18; H290, H3 231-974-7 dicity-Oral 3; STC 231-714-2 ion 1A; H272, H3 231-633-2 ion1B; H290, H3 231-633-2 ion1B; H290, H3 c FIRST A e vomiting. Ca lowered (forw y symptoms no discard conta k immediate mot taminated clott tion if any bliste	Continue rins this contain tainer to an quiry involvir manufacture IGREDIE % T 60-100 N 7-13 N 1-5 (0 1-5 (1 1-5 (0 1-5 (1 1-5 (1))))))))))))))))))))))))))))))))))))	ing. P31 er label c approved ng this pr er, and sh ENT IN ACGIH ppm LV STEL IE NE IA NA 1) NA 1) NA 2) NA xp 2; Acute 2 4 1) (3) SURE 281-1742 0 vomit fr worn and on when on sh expo g or oper	4 – Get med ar section 4 c waste dispo oduct, pleas ow them this IFORMA EXI NOHS PPM ES- TWA STEL NF NF NF NF (0.2) NF Aquatic Toxic 2 NF NF NF S for emerger om entering flush eyes sores devel	ical adv of this Si sal plan e contact SDS. I SDS.	ice/att DS. F t. ct a pl Keep of Keep of I IMITS II PEL NE NA (1) (0.2)	ention 2405 – nysicia out of NAIR (m OSHA PPm STEL NE NA NA NA Quatic 1 NA NA dvice. all 911 hounts of	if you Store in or lo reach of reach of reach of reach of reach of reach of	of children.



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		4. FIRST AID MEASURES – cont'd		
4.2	Effects of Exposure:	Eyes:Severe or permanent eye damage.Skin:Burns upon direct contact.Ingestion:Severe burns of mouth, throat, stomach.		
		Inhalation: Severe irritation or burns in respiratory tract and mucous membrane	es. Possible lung damage.	
4.3	Symptoms of Overexposure:	Eves: Redness, burning, irritation, and swelling around eves		
		Skin: Redness, burning, itching, rash, blistering of skin.		
		Ingestion: Nausea, vomiting, severe abdominal pain. Inhalation: Coughing, wheezing, swelling of throat, irritation in mucous membra	anes difficulty breathing	
4.4	Acute Health Effects:	May be harmful if inhaled. Material is extremely destructive to the tissue of the m tract. May be harmful if swallowed. Causes burns. May be harmful if absorbed through	ucous membranes and upper respire	atory
4.5	Chronic Health Effects:	May damage the nervous system, kidney and/or liver.		
4.6	Target Organs:	Eyes, skin, nervous system, kidneys, liver, respiratory system.		
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions, and disorders of the target organs	HEALTH	3
		(eyes, skin, and respiratory system) or impaired kidney function may be more susceptible to the effects of this substance.	FLAMMABILITY	0
			PHYSICAL HAZARDS	0
			PROTECTIVE EQUIPMENT	н
			EYES SKIN LUNGS	
4.8	Notes to Physician:	This product contains <u>Selenious Acid</u> and is potentially fatal if ingested even in sr be considered in asymptomatic or minimally symptomatic patients as delayed t and multi-organ failure may occur. 24/7 medical toxicology consultation is availabl	toxic effects including pulmonary ec	
		5. FIREFIGHTING MEASURES		
5.1	Fire & Explosion Hazards:	Non-flammable. May react with metals to release hydrogen gas, which can form with air. May intensity fire; oxidizer.	n explosive mixtures	
5.2 5.3	Extinguishing Methods: Firefighting Procedures:	Use fire-extinguishing media appropriate for surrounding materials. As with any fire, firefighters should wear appropriate protective equipment include		
		approved or equivalent self-contained breathing apparatus (SCBA) and protective as for surrounding materials. Hazardous decomposition products may be degradation may produce oxides of carbon, phosphorous, selenium and/or nitr and/or derivatives. Fire should be fought from a safe distance. Keep containers the fire is out. Use water spray to cool fire-exposed surfaces and to protect upwind. Prevent runoff from fire control or dilution from entering sewers, dr	released. Thermal rogen, hydrocarbons s cool until well after personal. Fight fire	
		supply, or any natural waterway.	ains, drinking water	
		6. ACCIDENTAL RELEASE MEASURES	ains, drinking water	
6.1	Spills:		t wear appropriate Personal Prote loves and other protective clothing ctive eyewear. Use a non-combus container for later disposal. spill. Stay upwind and away from sp of area. Stop spill or release if it ca iratory protection as conditions war	(e.g., tible, oill or in be rrant.
6.1	Spills:	6. ACCIDENTAL RELEASE MEASURES Before cleaning any spill or leak, individuals involved in spill cleanup must Equipment (PPE). Use safety glasses or safety goggles and face shield; use gl apron, boots, etc.) to prevent skin contact. <u>Small Spills</u> : Wear appropriate protective equipment including gloves and prote- inert material such as vermiculite or sand to soak up the product and place into a or <u>Large Spills</u> : Keep incompatible materials (e.g., organics such as oil) away from release. Isolate immediate hazard area and keep unauthorized personnel out or done with minimal risk. Wear appropriate protective equipment including resp Recover as much free liquid as possible and collect in acid-resistant container.	t wear appropriate Personal Prote loves and other protective clothing ctive eyewear. Use a non-combus container for later disposal. spill. Stay upwind and away from sp of area. Stop spill or release if it ca iratory protection as conditions war	(e.g., tible, oill or in be rrant.
6.1	Spills: Work & Hygiene Practices:	6. ACCIDENTAL RELEASE MEASURES Before cleaning any spill or leak, individuals involved in spill cleanup must Equipment (PPE). Use safety glasses or safety goggles and face shield; use gl apron, boots, etc.) to prevent skin contact. <u>Small Spills</u> : Wear appropriate protective equipment including gloves and proter inert material such as vermiculite or sand to soak up the product and place into a or Large Spills: Keep incompatible materials (e.g., organics such as oil) away from release. Isolate immediate hazard area and keep unauthorized personnel out or done with minimal risk. Wear appropriate protective equipment including resp Recover as much free liquid as possible and collect in acid-resistant container. discharging liquid directly into a sewer or surface waters.	t wear appropriate Personal Prote loves and other protective clothing ctive eyewear. Use a non-combus container for later disposal. spill. Stay upwind and away from sp of area. Stop spill or release if it ca iratory protection as conditions war Use absorbent to pick up residue. A ipment when handling product. Kee Wash thoroughly after handling. Do	(e.g., tible, bill or in be rrant. Avoid
		6. ACCIDENTAL RELEASE MEASURES Before cleaning any spill or leak, individuals involved in spill cleanup must Equipment (PPE). Use safety glasses or safety goggles and face shield; use glapron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves and proter inert material such as vermiculite or sand to soak up the product and place into a clarge Spills: Keep incompatible materials (e.g., organics such as oil) away from release. Isolate immediate hazard area and keep unauthorized personnel out of done with minimal risk. Wear appropriate protective equipment including resp Recover as much free liquid as possible and collect in acid-resistant container. discharging liquid directly into a sewer or surface waters. Avoid breathing mists or spray. Avoid eye and skin contact. Wear protective equipment including this product. expose to heat and flame. Use only in ventilated areas. Keep out of the reach	t wear appropriate Personal Prote loves and other protective clothing ctive eyewear. Use a non-combus container for later disposal. spill. Stay upwind and away from sp of area. Stop spill or release if it ca iratory protection as conditions war Use absorbent to pick up residue. <i>A</i> ipment when handling product. Kee Wash thoroughly after handling. Do of children. Immediately clean-up ilation, fans) away from heat and co in use. Avoid temperatures above	(e.g., tible, bill or in be trant. Avoid p out p out o not and direct



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		8. EXPOSURE CONTRO	)LS & F	PERSO	ONAL F	PROT	ECTIO	N			
8.1	Exposure Limits:		-	GIH		NOHSC		1	OSHA		OTHER
	ppm (mg/m <sup>3</sup> )		-	0751		ES-	ES-		0751		
		CHEMICAL NAME(S) PHOSPHORIC ACID	(1)	<b>STEL</b> (3)	ES-TWA	STEL NF	PEAK NF	PEL NA	STEL NA	1000	
		COPPER (II) NITRATE, TRIHYDRATE	(1)	NA	NF	NF	NF	(1)	NA	NA	
		SELENIOUS ACID	(0.2)	NA	(0.2)	NF	NF	(0.2)	NA	NA	
		AMMONIUM HYDROGEN DIFLUORIDE	(2.5)	NA	(2.5)	NA	NA	(2.5)	NA	NA	
8.2	Ventilation & Engineering	Use local or general exhaust ventilation	n to effecti	vely rem	ove and pr	event bu	uildup of v	apors or	mist ger	nerated	from the
	Controls:	handling of this product. Ensure appropration).									
8.3	Respiratory Protection:	In instances where vapors or sprays of use only protection authorized by 29 CI CAS Standard Z94.4-93 and applical Australia.	FR §1910.1	134, appl	icable U.S	State re	gulations	, or the C	anadian		
8.4	Eye Protection:	Safety glasses with side shields must shield is also recommended.	be used w	hen han	dling or us	ing this	product.	A protect	tive face		B
8.5	Hand Protection:	Wear protective, chemical-resistant glov	ves (e.g., n	eoprene)	when usin	g or han	dling this	product.		(I)	
8.6	Body Protection:	A chemical resistant apron and/or pro product.	tective clo	thing are	e recomme	ended wh	nen handl	ling or u	sing this		
		9. PHYSICAL & (	CHEMI		ROPE	RTIES	5				
9.1	Appearance:	Blue gel									
9.2	Odor:	Odorless									
9.3	Odor Threshold:	NA									
9.4	pH:	1.5									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling Range:	> 100 °C (> 212 °F)									
9.7	Flashpoint:	NA									
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:	1.055									
9.12	Solubility:	Complete (water)									
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)								
		10. STABII	LITY &	REAC	TIVITY	/					
10.1	Stability:	Stable at normal temperatures.									
10.2	Hazardous Decomposition Products:	Reaction with organics and strong re decomposition may produce selenium, r									Therma
10.3	Hazardous Polymerization:	Will not occur.						-	Ŭ		
10.4	Conditions to Avoid:	Excessive heat.									
10.5	Incompatible Substances:	Cyanides, water-reactive substances, materials, and most metals.	strong red	lucing ag	ents, chlo	rinated o	cleaners o	or sanitiz	ers, com	bustible	organic
		11. TOXICOLO		INFC	RMΔT						
11.1	Routes of Entry:			Absorp				Inc	estion: N	0	
1.1.1	Toxicity Data:				120		) (oral -			<u>10</u>	ol rot)
11.2		Phosphoric Acid: LD <sub>50</sub> (oral, rat) = 1530	л тg/кg; <u>С</u>	opper Nr	trate Trinyo	<u>arate</u> : LD	v <sub>50</sub> (orai, r	at) = 794	rng/kg; l	_u <sub>50</sub> (or	ai, rat) =
11.2	Poniony Balar	1030 ma/ka									
		1030 mg/kg									
11.3	Acute Toxicity:	See Section 4.4									



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		11. TOXICOLOGICAL INFORMATION – cont'd
11.6	Reproductive Toxicity:	
11.0	Mutagenicity:	This product is not reported to cause reproductive toxicity in humans.
	Embryotoxicity:	This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans.
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.
11.7	Irritancy of Product:	See Section 4.2
11.8	Biological Exposure India	
11.9	Physician	Treat symptomatically.
	Recommendations:	meat symptomatically.
		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	No data available.
12.2	Effects on Plants & Animals:	No data available.
12.3	Effects on Aquatic Life:	Very toxic to aquatic life with long lasting effects. Phosphoric Acid: EC <sub>50</sub> (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 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
		Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional hay be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.
14.1	49 CFR (GND):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, LTD QTY (IP VOL ≤ 1.0 L)
14.2	IATA (AIR):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, LTD QTY (IP VOL ≤ 0.1 L)
14.3	IMDG (OCN):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, LTD QTY (IP VOL ≤ 1.0 L)
14.4	TDGR (Canadian GND):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, LTD QTY (IP VOL ≤ 1.0 L)
14.5	ADR/RID (EU):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, LTD QTY (IP VOL ≤ 1.0 L)
14.6	SCT (MEXICO):	UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO FOSFORICO), 8, II, CANTIDAD LIMITADA (IP VOL ≤ 1.0 L)
14.7	ADGR (AUS):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, LTD QTY (IP VOL ≤ 1.0 L)
		15. REGULATORY INFORMATION
15.1	SARA Reporting	This product contains <u>Selenious Acid</u> , <u>Cupric Sulfate</u> and <u>Phosphoric Acid</u> , substances subject to SARA Title III, section 313
	Requirements:	reporting requirements.
15.2	SARA TPQ:	NA
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.
15.4	CERCLA Reportable	Selenious Acid: 10 lbs (4.54 kg); Ammonium Hydrogen Difluoride: 100 lbs (45.4 kg); Phosphoric Acid: 5,000 lbs (2,270 kg)
	Quantity:	
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:	<u>Selenious Acid</u> is found on the following state criteria lists: FL, MA, MN, PA, and WI. <u>Ammonium Hydrogen Difluoride</u> is found on the following state criteria lists: FL, MA, MN, NJ, PA and WA. <u>Phosphoric Acid</u> is found on the following state criteria lists: MA, PA. 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).



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		16. OTHER INFO	DRMATION
16.1	Other Information:	TO ORGANS THROUGH PROLONGED OR REPEA' from clothing/ combustible materials. Do not breather smoke when using this product. Avoid release to protection/ face protection. IF SWALLOWED: Rinse immediately all contaminated clothing. Rinse skin with comfortable for breathing. Immediately call a poison Remove contact lenses, if present and easy to do. Co	SEVERE SKIN BURNS OR EYE DAMAGE. MAY CAUSE DAMAGE TED EXPOSURE. Keep only in original packaging. Keep/Store away e dust or mist. Wash thoroughly after handling. Do not eat, drink or the environment. Wear protective gloves/ protective clothing/ eye e mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off water [or shower]. IF INHALED: Remove person to fresh air and keep center. IF IN EYES: Rinse cautiously with water for several minutes. ntinue rinsing. Get medical advice/attention if you feel unwell. Specific SDS. Store locked up. KEEP LOCKED UP AND OUT OF REACH OF
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for app Technologies' knowledge, the information contained suitability or completeness is not guaranteed and no information contained herein relates only to the spec	HA's Hazard Communication Standard, 29 CFR §1910.1200. Other licability to this product. To the best of ShipMate's & Birchwood herein is reliable and accurate as of this date; however, accuracy, warranties of any type, either expressed or implied, are provided. The cific product(s). If this product(s) is combined with other materials, all 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 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 Dangerous Goods Training & Consulting



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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:

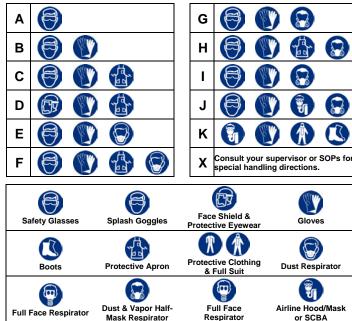
	CPR	Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.
--	-----	--

#### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

### HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

### PERSONAL PROTECTION RATINGS:



#### OTHER STANDARD ABBREVIATIONS:

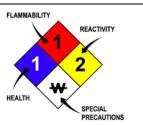
Carc	Carcinogenic			
Irrit	Irritant			
NA	Not Available			
NR	No Results			
ND	Not Determined			
NE	Not Established			
NF	Not Found			
SCBA	Self-Contained Breathing Apparatus			
Sens	Sensitization			
STOT RE	Specific Target Organ Toxicity – Repeat Exposure			
STOT SE	Specific Target Organ Toxicity –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

# NATIONAL FIRE PROTECTION ASSOCIATION: NFPA FLAMMABILITY LIMITS IN AIR: Autoignition Minimum temperature required to initiate combustion in air with r

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	FLAN
1	Slight Hazard	FLA
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/
W	Use No Water	HEAL
ох	Oxidizer	
TREFOIL	Radioactive	



#### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	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 <sub>I0</sub> Lowest dose to cause a symptom				
TCLo	Lowest concentration to cause a symptom			
TD <sub>Io</sub> , LD <sub>Io</sub> , & LD <sub>o</sub> or	TD <sub>Io</sub> , LD <sub>Io</sub> , & LD <sub>o</sub> or Lowest dose (or concentration) to cause lethal or toxic effects			
TC, TC <sub>o</sub> , LC <sub>io</sub> , & LC <sub>o</sub>				
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 Koo	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:

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