BIRCHWOOD

SAFETY DATA SHEET

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Prep	pared to OSHA, ACC,	ANSI, NOHSC, V	VHMIS, GHS &	1272/2008/EC	Standards	S	DS Rev	rision: 2.0	S	DS Rev	rision Da	ate: 3/14/2017
		1	. PRODU			DEN	TIFIC	ATION				
1.1	Product Name:			-								
1.2	Chemical Name:	Acid Mixture										
1.3	Synonyms:	750350, 7503	351, 750358									
1.4	Trade Names:	Antique Black										
1.5	Product Use:	Blackening S	olution for Bras	s & Copper								
1.6	Distributor's Name:	Birchwood La	aboratories LLC	;								
1.7	Distributor's Address:	7900 Fuller R	Road, Eden Prai	irie, MN 55344	USA							
1.8	Emergency Phone:	ChemTrec	+1 (800) 424-	9300 / +1 (70	3) 527-388	7 or <mark>Pc</mark>	ison C	ontrol C	enter +	1 (855) 281-1	742
1.9	Business Phone / Fax:	+1 (952) 937	7-7900 / +1 (952	2) 937-7979								
			2. H	AZARDS	IDENTI	FICA	TION					
2.1	Hazard Identification:	[NOHSC: 108 DANGER! METALS.	88 (2004)] and A	ADG Code (Au ALLOWED. M	stralia). IAY CAUSE	SEVER	E SKIN	•		-		ification criteria
		damage. P29 <u>Precautionar</u> mist. P264 product. P3 P303+P361+ with water [o for breathing Remove con this containe clothing befor	ements (H): H3 90 – Corrosive f y Statements (– Wash thorou 601+P310 - IF S +P353 – IF ON or shower]. P30 g. P305+P351 tact lenses, if per label or sectore reuse. P390	to metals. P): P234 – M ghly after hand SWALLOWED: SKIN (or hair):)4+P340 – IF II I+P338 IF IN oresent and ea ion 4 of this \$ 0 – Absorb spi	ay be corros dling. P270 Immediately Take off im NHALED: Re EYES: Rins sy to do. Co SDS. P330	ive to n – Do no v call a mediate move p se cauti ontinue n – Rinse ent mate	netals. ot eat, c POISON y all cor erson to ously w insing. mouth erial-dan	P260 – Do drink or sm I CENTEF ntaminated fresh air a ith water P321 – S . P363 –	o not bre noke whe or doct clothing and keep for seve pecific tr Wash o	eathe d en usir or/phys g. Rins comfo eral mi reatme contam	lust or ng this sician. se skin prtable nutes. nt see inated	
2.3	Other Warnings:	container to	e in a corrosion an approved wa of an exposure	aste disposal pl	ant.							
2.3	Other Warnings:	container to a In the event center, who r	an approved wa	aste disposal pl or medical in e from the U.S.	ant. quiry involvir manufacture	ng this p er, and s	product, how the	please co m this SDS	ntact a p S. Keep	physicia	an or lo	
2.3	Other Warnings:	container to a In the event center, who r	an approved wa of an exposure nay seek advice	aste disposal pl or medical in e from the U.S.	ant. quiry involvir manufacture	ng this p er, and s ENT I	product, how the	please co m this SDS RMATIO EXPOSU	ntact a p S. Keep	ohysicia out of IN AIR (I	an or lo reach o mg/m ³)	
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2.3	Other Warnings:	container to a In the event center, who r	an approved wa of an exposure nay seek advice	aste disposal pl or medical in e from the U.S.	ant. quiry involvir manufacture	ng this p er, and s ENT I	NFOR	please co m this SDS RMATIC EXPOSU NOHSC ppm	ntact a p S. Keep DN RE LIMITS	ohysicia out of IN AIR (I	an or lo reach o mg/m ³)	
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards

SDS Revision: 2.0

		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 eyes				
		Skin: Redness, burning, itching, rash, blistering of skin.				
		Ingestion: Nausea, vomiting, severe abdominal pain.				
		Inhalation: Coughing, wheezing, swelling of throat, irritation in mucous membra				
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 thr		branes and upper	r respira	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	Pre-existing dermatitis, other skin conditions, and disorders of the target organs	HEALTH			3
	Aggravated by Exposure:	(eyes, skin, and respiratory system) or impaired kidney function may be more	FLAMMA			0
		susceptible to the effects of this substance.				
			PHYSICA	L HAZARDS		2
			PROTEC	TIVE EQUIPME	ENT	Η
			EYES	SKIN LU	UNGS	
4.8	Notes to Physician:	This product contains Selenious Acid and is potentially fatal if ingested even in si	mall amounts	s. 24-hour admis	sion sh	ould
		be considered in asymptomatic or minimally symptomatic patients as delayed t	toxic effects	including pulmor	nary ed	ema
		and multi-organ failure may occur. 24/7 medical toxicology consultation is available	le at +1 (855) 281-1742.		
		5. FIREFIGHTING MEASURES				
5.1	Fire & Explosion Hazards:	Non-flammable. May react with metals to release hydrogen gas, which can form e	explosive miz	xtures with air.		
		May intensity fire; oxidizer.				
5.2	Extinguishing Methods:	Use fire-extinguishing media appropriate for surrounding materials.				
5.3	Firefighting Procedures:	As with any fire, firefighters should wear appropriate protective equipment i				
		approved or equivalent self-contained breathing apparatus (SCBA) and protective	e clothing. Fi			2>
			The survey of the state			
		surrounding materials. Hazardous decomposition products may be released.				Υ
		produce oxides of carbon, phosphorous, selenium and/or nitrogen, hydrocarbo	ns and/or de	erivatives. Fire		$\mathbf{\times}$
		produce oxides of carbon, phosphorous, selenium and/or nitrogen, hydrocarbon should be fought from a safe distance. Keep containers cool until well after the fi	ns and/or de ire is out. Us	erivatives. Fire se water spray		Y
		produce oxides of carbon, phosphorous, selenium and/or nitrogen, hydrocarbon should be fought from a safe distance. Keep containers cool until well after the fi to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Preven	ns and/or de ire is out. Us it runoff from	erivatives. Fire se water spray		×
		produce oxides of carbon, phosphorous, selenium and/or nitrogen, hydrocarbon should be fought from a safe distance. Keep containers cool until well after the fi to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Preven dilution from entering sewers, drains, drinking water supply, or any natural waterw	ns and/or de ire is out. Us it runoff from	erivatives. Fire se water spray		×
		produce oxides of carbon, phosphorous, selenium and/or nitrogen, hydrocarbon should be fought from a safe distance. Keep containers cool until well after the fi to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Preven dilution from entering sewers, drains, drinking water supply, or any natural waterw 6. ACCIDENTAL RELEASE MEASURES	ns and/or de ire is out. Us it runoff from vay.	privatives. Fire se water spray fire control or		×
6.1	Spills:	produce oxides of carbon, phosphorous, selenium and/or nitrogen, hydrocarbon should be fought from a safe distance. Keep containers cool until well after the fit to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Preven dilution from entering sewers, drains, drinking water supply, or any natural waterw 6. ACCIDENTAL RELEASE MEASURES Before cleaning any spill or leak, individuals involved in spill cleanup must	ns and/or de ire is out. Us it runoff from vay.	rivatives. Fire se water spray fire control or ropriate Personal	I Protec	ctive
6.1	Spills:	produce oxides of carbon, phosphorous, selenium and/or nitrogen, hydrocarbon should be fought from a safe distance. Keep containers cool until well after the fit to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Preven dilution from entering sewers, drains, drinking water supply, or any natural waterw 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 g	ns and/or de ire is out. Us it runoff from vay.	rivatives. Fire se water spray fire control or ropriate Personal	I Protect	ctive e.g.
6.1	Spills:	produce oxides of carbon, phosphorous, selenium and/or nitrogen, hydrocarbon should be fought from a safe distance. Keep containers cool until well after the fit to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Preven dilution from entering sewers, drains, drinking water supply, or any natural waterw 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 g apron, boots, etc.) to prevent skin contact.	ns and/or de ire is out. Us it runoff from vay. t wear appr loves and of	rivatives. Fire se water spray fire control or opriate Personal ther protective clo	othing (e.g.
6.1	Spills:	produce oxides of carbon, phosphorous, selenium and/or nitrogen, hydrocarbon should be fought from a safe distance. Keep containers cool until well after the fit to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Preven dilution from entering sewers, drains, drinking water supply, or any natural waterw 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 g apron, boots, etc.) to prevent skin contact. <u>Small Spills</u> : Wear appropriate protective equipment including gloves and prote	ns and/or de ire is out. Us it runoff from vay. t wear appr loves and of ective eyewe	rivatives. Fire se water spray fire control or ropriate Personal ther protective clo ar. Use a non-c	othing (e.g.
6.1	Spills:	produce oxides of carbon, phosphorous, selenium and/or nitrogen, hydrocarbon should be fought from a safe distance. Keep containers cool until well after the fit to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Preven dilution from entering sewers, drains, drinking water supply, or any natural waterw 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 g 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	ns and/or de ire is out. Us it runoff from vay. t wear appr loves and of ective eyewe container for	rivatives. Fire se water spray fire control or ropriate Personal ther protective clo ar. Use a non-c r later disposal.	othing (combust	e.g. tible
6.1	Spills:	produce oxides of carbon, phosphorous, selenium and/or nitrogen, hydrocarbon should be fought from a safe distance. Keep containers cool until well after the fit to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Preven dilution from entering sewers, drains, drinking water supply, or any natural waterw 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 g 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 <u>Large Spills</u> : Keep incompatible materials (e.g., organics such as oil) away from	ns and/or de ire is out. Us it runoff from vay. t wear appr loves and of ective eyewe container for spill. Stay u	rivatives. Fire se water spray fire control or ropriate Personal ther protective clo ar. Use a non-c r later disposal. pwind and away	othing (combust from sp	e.g. tible oill o
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards

SDS Revision: 2.0

0 1	Exposure Limite:	8. EXPOSURE CONTRO							08114		OTUES
8.1	Exposure Limits: ppm (mg/m ³)		AC	GIH		NOHSC ES-	ES-	+	OSHA	1	OTHER
	ppin (ing/in)	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	STEL	PEAK	PEL	STEL	IDLH	
		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	
		NITRIC ACID	2	4	2	NF	NF	2	NA	25	
		PHOSPHORIC ACID	(1)	(3)	NF	NF	NF	NA	NA	1000	
8.2	Ventilation & Engineering Controls:	Use local or general exhaust ventilation handling of this product. Ensure approp station).									
8.3	Respiratory Protection:	In instances where vapors or sprays of use only protection authorized by 29 CF CAS Standard Z94.4-93 and applicat Australia.	'R §1910.1	134, appli	icable U.S	. State re	gulations	, or the C	anadian		
8.4	Eye Protection:	Safety glasses with side shields must the shield is also recommended.	be used w	hen hand	dling or us	ing this	product.	A protect	ive face	0	B
8.5	Hand Protection:	Wear protective, chemical-resistant glove	es (e.g., n	eoprene)	when usir	g or han	dling this	product.			
8.6	Body Protection:	A chemical resistant apron and/or prot product.	ective clo	thing are	recomme	ended wh	nen hand	ling or us	sing this	Ę	
		9. PHYSICAL & C	HEMI	CAL P	ROPE	RTIES	6				
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:	1.35									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling	> 100 °C (> 212 °F)									
9.7	Range: 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:	1.10									
9.12	Solubility:	Insoluble (water); Soluble (isopropanol)									
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. STABIL	ITY &	RFAC	τινιτγ	,					
10.1	Stability:	Stable at normal temperatures.									
10.2	Hazardous Decomposition Products:	Reaction with organics and strong reader of the second sec									Therm
10.3	Hazardous Polymerization:	Will not occur.	ogon, pi			e. e. 1000	, and nyu			•	
10.4	Conditions to Avoid:	Excessive heat.									
10.5	Incompatible Substances:	Cyanides, water-reactive substances, s	strong red	ucing ad	ents, chlo	rinated c	leaners o	or sanitize	ers, com	bustible	orgar
		materials, and most metals.									
		11. TOXICOLO	GICAL		1						
11.1	Routes of Entry:	Inhalation: YES		Absorp				-		10	
11.2	Toxicity Data:	Phosphoric Acid: LD ₅₀ (oral, rat) = 1530 1030 mg/kg	mg/kg; <u>C</u>	opper Nit	trate Trihy	drate: LD	₅₀ (oral, r	at) = 794	mg/kg; L	_D ₅₀ (or	al, rat
11.3	Acute Toxicity:	See Section 4.4									
11.4	Chronic Toxicity:	See Section 4.5									



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SDS Revision: 2.0

		11. TOXICOLOGICAL INFORMATION – cont'd
11.6	Reproductive Toxicity:	This product is not reported to cause reproductive toxicity in humans.
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.
11.7	Irritancy of Product:	See Section 4.2
11.8	Biological Exposure Indic	ves: NE
11.9	Physician Recommendations:	Treat symptomatically.
		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	No data available.
12.2	Effects on Plants &	No data available.
12.3	Animals: Effects on Aquatic Life:	Very toxic to aquatic life with long lasting effects. <u>Phosphoric Acid</u> : 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
		disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, an federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage an 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
The	basic description (ID	Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional ay 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, NITRIC ACID), 8, II, LTD QTY (IP VOL ≤ 1.0 L)
14.2	IATA (AIR):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC ACID), 8, II, LTD QTY (IP VOL ≤ 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 ≤ 1.0 L)
14.4	TDGR (Canadian GND):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, NITRIC 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, NITRIC 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 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 ≤ 1.0 L)
		15. REGULATORY INFORMATION
15.1	SARA Reporting	This product contains <u>Nitric Acid</u> , <u>Phosphoric Acid</u> and <u>Selenious Acid</u> , substances subject to SARA Title III, section 31
	Requirements:	reporting requirements.
15.2	SARA TPQ:	302 TPQ (Nitric Acid): 1,000 lbs (454 kg)
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); Nitric Acid: 1,000 lbs (454 kg); Phosphoric Acid: 5,000 lbs (2,270 kg)
15.5	Quantity: Other Federal	NA
15.6	Requirements: Other Canadian	This product has been classified according to the hazard criteria of the CPR and the MSDS contains all
	Regulations:	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
15.7	State Regulatory	(Corrosive Material). WHMIS Class D1 (Materials Causing Immediate and Serious Toxic Effects).
13.7	Information:	Selenious Acid is found on the following state criteria lists: FL, MA, MN, PA, and WI.
		Nitric Acid is found on the following state criteria lists: FL, MA, MN, NJ, PA, and WA.
		Phosphoric Acid 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 sta criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances Li
		L(EL), Massachusetts Hazardous Substances List (MA), Michidan Critical Substances List (MI), Minnesota Hazardoi
		(FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardou Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right
		(FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardou Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Righ to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).



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		16. OTHER INFO	ORMATION			
16.1	Other Information:	METALS. Keep only in original packaging. May be c handling. Do not eat, drink or smoke when using th doctor/physician. IF ON SKIN (or hair): Take off imr IF INHALED: Remove person to fresh air and keep of several minutes. Remove contact lenses, if present a label or section 4 of this SDS. Rinse mouth. Wash of	SE SEVERE SKIN BURNS OR EYE DAMAGE. CORROSIVE TO orrosive to metals. Do not breathe dust or mist. Wash thoroughly after is product. IF SWALLOWED: Immediately call a POISON CENTER or nediately all contaminated clothing. Rinse skin with water [or shower]. comfortable for breathing. IF IN EYES: Rinse cautiously with water for ind easy to do. Continue rinsing. Specific treatment see this container ontaminated clothing before reuse. Absorb spillage to prevent material- ant container with a resistant inner liner. KEEP LOCKED UP AND OUT			
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.				
16.3	Disclaimer:					
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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SDS Revision: 2.0

SDS Revision Date: 3/14/2017

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:

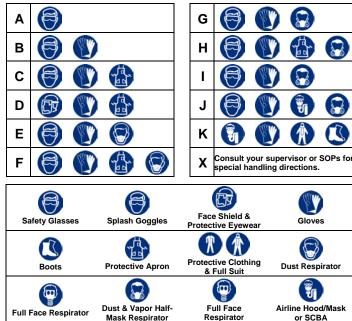
CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

PERSONAL PROTECTION RATINGS:



OTHER STANDARD ABBREVIATIONS:

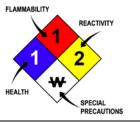
Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

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

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



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	ppm Concentration expressed in parts of material per million parts			
TD _{Io}	TD _{I0} Lowest dose to cause a symptom			
TCLo Lowest concentration to cause a symptom				
TD _{Io} , LD _{Io} , & LD _o or	, LD _{Io} , & LD _o or Lowest dose (or concentration) to cause lethal or toxic effects			
TC, TC _o , LC _{io} , & 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			

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