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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 3/14/2017 SDS Revision: 2.0 1. PRODUCT & COMPANY IDENTIFICATION 11 Product Name PRESTO BLACK® RPL 1.2 Chemical Name: Acid Mixture 1.3 Synonyms 560550, 560551, 560558 Presto Black® RPL 1.4 Trade Names: Blackening Solution for Iron and Steel 1.5 Product Use: Distributor's Name: 1.6 Birchwood Laboratories LLC 7900 Fuller Road, Eden Prairie, MN 55344 USA Distributor's Address: 1.7 1.8 Emergency Phone: ChemTrec +1 (800) 424-9300 / +1 (703) 527-3887 or Poison Control Center +1 (855) 281-1742 1.9 Business Phone / Fax: +1 (952) 937-7900 / +1 (952) 937-7979 2. HAZARDS IDENTIFICATION 2.1 Hazard Identification: This product is classified as a hazardous substance and as dangerous goods according to the classification criteria of INOHSC: 1088 (2004)] and ADG Code (Australia). DANGER! TOXIC IF SWALLOWED. MAY CAUSE SEVERE SKIN BURNS OR EYE DAMAGE. MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE. Classification: Acute Toxicity 3; ; Skin Corrosion 1B; STOT-RE 1 Label Elements: 2.2 Hazard Statements (H): H301 - Toxic if swallowed. H314 - Causes severe skin burns and eye damage. H373 - May cause damage to organs through prolonged or repeated exposure. H272 -May intensify fire; oxidizer. H410 – Very toxic to aquatic life with long lasting effects. Precautionary Statements (P): P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P220 - Keep/Store away from clothing/ combustible materials. P273 - Avoid release to the environment. P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician, P305+P351+P338 IF IN EYES; Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 - Dispose of contents/ container to an approved waste disposal plant. Other Warnings: 2.3 In the event of an exposure or medical inquiry involving this product, please contact a physician or local poison control center, who may seek advice from the U.S. manufacturer, and show them this SDS. Keep out of reach of children. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m3) ACGIH NOHSC **OSHA** ppm ppm ppm FS. FS-FS. EINECS No. TLV STEL STEL PEAK STEL IDLH OTHER CHEMICAL NAME(S) RTECS No. TWA CAS No. 7732-18-5 ZC0110000 231-791-2 60-100 NE NE NF NF NF NE NE NE WATER 7783-00-8 VS7175000 231-974-7 1-5 (0.2) NA (0.2) NF NF (0.2) NA SELENIOUS ACID Acute Toxicity-Inh 3; Acute Toxicity-Oral 3; STOT RE 2; Acute Aquatic Toxicity 1; Chronic Aquatic Toxicity 1); H301, H331 7664-38-2 TB6300000 231-633-2 1-5 (1) (3) NF NF NF NA NA 1000 PHOSPHORIC ACID Metal Corrosion 1; Skin Corrosion1B; H290, H314 4. FIRST AID MEASURES 4 1 First Aid: Ingestion: DO NOT INDUCE VOMITING. Contact SafetyCall +1 (855) 281-1742 or the nearest Poison Control Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minutes, Eyes: holding eyelid(s) open to ensure complete flushing. If the eyes or face become swollen during or following use, consult a physician or emergency room immediately. Skin: Remove contaminated clothing and wash affected areas with soap and water. If discomfort persists and/or the skin reaction worsens, contact a physician immediately. Do not wear contaminated clothing until after it has been properly cleaned.

respiration. Seek immediate medical attention.

Inhalation:

Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial



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		4. FIRST AID MEASURES – cont'o						
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 me	embranes.	Possible lun	ng damage.			
4.3	Symptoms of Overexposure:	Eyes: 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						
4.4	Acute Health Effects:	May be harmful if inhaled. Material is extremely destructive to the tissue tract. May be harmful if swallowed. Causes burns. May be harmful if abso			anes and upp	er respirato		
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, Spleen	, Blood Forr	ning Organs	s, Bones.			
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions, and disorders of the target	HEALTH			3		
	riggiarated by Exposure.	organs (eyes, skin, respiratory system, liver, blood-forming organs) or	FLAMM	ABILITY		0		
		impaired kidney function may be more susceptible to the effects of this substance.		AL HAZAF	2DS	0		
		Substance.						
				CTIVE EQU		<u> </u>		
			EYES	SKIN	LUNGS			
4.8	Notes to Physician:	This product contains <u>Selenious Acid</u> and is potentially fatal if ingested e						
		be considered in asymptomatic or minimally symptomatic patients as del				y edema a		
		multi-organ failure may occur. 24/7 medical toxicology consultation is available.	liable at +1	(655) 261-17	742.			
		5. FIREFIGHTING MEASURES						
- 4	Fire 0 Francisco Harrando				. 1			
5.1	Fire & Explosion Hazards:	Non-flammable. May react with metals to release hydrogen gas, which	can form e	xplosive mix	xtures			
	Fution debies Matheday	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 including a MSHA/NIOSH					
		approved or equivalent self-contained breathing apparatus (SCBA) and protective clothing. Fight fires						
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7.1	Work & Hygiene Practices:	as for surrounding materials. Hazardous decomposition products degradation may produce oxides of carbon, phosphorous, selenium are and/or derivatives. Fire should be fought from a safe distance. Keep conting is out. Use water spray to cool fire-exposed surfaces and to protect Prevent runoff from fire control or dilution from entering sewers, drains, natural waterway.  6. ACCIDENTAL RELEASE MEASUR  Before cleaning any spill or leak, individuals involved in spill cleanup mus (PPE). Use safety glasses or safety goggles and face shield; use glove etc.) to prevent skin contact.  Small Spills: Wear appropriate protective equipment including gloves and material such as vermiculite or sand to soak up the product and place into Large Spills: Keep incompatible materials (e.g., organics such as oil) averelease. Isolate immediate hazard area and keep unauthorized personne with minimal risk. Wear appropriate protective equipment including respi much free liquid as possible and collect in acid-resistant container. Use liquid directly into a sewer or surface waters.  7. HANDLING & STORAGE INFORMATA Avoid breathing mists or spray. Avoid eye and skin contact. Wear protect the reach of children. Do not eat, drink or smoke when handling this expose to heat and flame. Use only in ventilated areas. Keep out of decontaminate any spills or residues.	may be rend/or nitrograiners cool personal. drinking war appress and other a protective of a containe way from spel out of area ratory protect e absorbent absorbent approduct. We the reach of entilation, fareacting products are according to the cool of the c	eleased. Then, hydroca until well aft Fight fire upter supply, compriste Persprotective compressions. Stay upter supply. All the supply and the supplement when has a shape the supplement whe	at fires permal problems of the powind. For any seconal Protective clothing (e.g., asse a non-combisposal. wind and aways or release if it ditions warran residue. Avoid and a management of the problems of the product ghly after hand mediately of the problems of the prob	pustible, inconstible, inconsti		
7.1	Work & Hygiene Practices:	as for surrounding materials. Hazardous decomposition products degradation may produce oxides of carbon, phosphorous, selenium are and/or derivatives. Fire should be fought from a safe distance. Keep conting is out. Use water spray to cool fire-exposed surfaces and to protect Prevent runoff from fire control or dilution from entering sewers, drains, natural waterway.  6. ACCIDENTAL RELEASE MEASUR  Before cleaning any spill or leak, individuals involved in spill cleanup mus (PPE). Use safety glasses or safety goggles and face shield; use glove etc.) to prevent skin contact.  Small Spills: Wear appropriate protective equipment including gloves and material such as vermiculite or sand to soak up the product and place into Large Spills: Keep incompatible materials (e.g., organics such as oil) averelease. Isolate immediate hazard area and keep unauthorized personne with minimal risk. Wear appropriate protective equipment including resping much free liquid as possible and collect in acid-resistant container. Use liquid directly into a sewer or surface waters.  7. HANDLING & STORAGE INFORMATA Avoid breathing mists or spray. Avoid eye and skin contact. Wear protect the reach of children. Do not eat, drink or smoke when handling this expose to heat and flame. Use only in ventilated areas. Keep out of decontaminate any spills or residues.  Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilated location)	may be rend/or nitrograiners cool personal. drinking war appress and other protective of a containe way from spel out of area ratory protect e absorbent TION tive equipment of the reach of entitlation, fain use. Avoid entitle and the reach of the reach	eleased. Then, hydroca until well aft Fight fire upter supply, compriste Persprotective compressions. Stay upters a. Stop spill. Stay upters to pick upters when has a shape the first	sonal Protective clothing (e.g., asse a non-combise sposal. wind and away of or release if it ditions warran residue. Avoid and a residue. Avoid the sposal combise sposal combise sposal. Wind and away of or release if it ditions warran residue. Avoid sposal combise sposal com	pustible, incorporation, booder from spill can be do to Recover discharging. Keep out dling. Do rolean-up a sirect sunliging.		



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8.1	Exposure Limits:			GIH	RSON	NOHSC			OSHA		OTHER
	ppm (mg/m <sup>3</sup> )					ES-	ES-				
		CHEMICAL NAME(S) SELENIOUS ACID	TLV	STEL	ES-TWA	STEL	PEAK	PEL (O. 2)	STEL	IDLH	
		PHOSPHORIC ACID	(0.2)	(3)	(0.2) NF	NF NF	NF NF	(0.2) NA	NA NA	NA 1000	
3.2	Ventilation & Engineering										arated from t
	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, eyewash station).									
3.3	Respiratory Protection:	n instances where vapors or sprays of this product are generated, and respiratory protection is needed,									
		use only protection authorized by 2	se only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian AS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or								
8.4	Eye Protection:	Safety glasses with side shields n shield is also recommended.	nust be i	used whe	n handling	g or usin	g this prod	duct. A	protective	face	
8.5	Hand Protection:	Wear protective, chemical-resistan	t gloves	(e.g., ned	prene) wh	en using	or handlir	ng this pr	oduct.		(EV)
8.6	Body Protection:	A chemical resistant apron and/o product.	r protect	ive clothi	ng are red	commen	ded when	handling	g or usin	g this	
		9. PHYSICAL	& CH	EMICA	AL PRO	)PER	TIES				
9.1	Appearance:	Clear, blue liquid	<u> </u>								
9.2	Odor:	Odorless									
9.3	Odor Threshold:	NA									
9.4	pH:	0.9									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling Range:	> 100 °C (> 212 °F)									
9.7	Flashpoint:	NA									
8.0	Upper/Lower Flammability Limits:	NA									
9.9	Vapor Pressure:	NA									
9.10	Vapor Density:	< 1.0 (air = 1.0)									
9.11	Relative Density:	1.025									
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:	IA									
9.17	Other Information:	Evaporation Rate: < 1.0 (ethyl ethe	er = 1.0)								
		10. STA	BILIT	Y & R	EACTI	/ITY					
10.1	Stability:	Stable at normal temperatures.			_,						
10.2	Hazardous Decomposition Products:	Reaction with organics and stror decomposition may produce selen						nides an	d hydrog	en sele	enide. Therm
10.3	Hazardous Polymerization:	Will not occur.	,	.go., a.io	PHOSPHOL	0.11000	•				
10.4	Conditions to Avoid:	Excessive heat.									
10.5	Incompatible Substances:	Excessive heat.  Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustible organi materials, and most metals.									
		11. TOXICO	LOGI	CAL I			ON	1		ı	
11.1	Routes of Entry:	Inhalation: YES			Absorption:				Ingest	on: N	)
11.2	Toxicity Data:	Phosphoric Acid: LD <sub>50</sub> (oral, rat) =	1,530 m	g/kg; LD <sub>5</sub>	o (oral, rat)	) = 4,640	mg/kg				
11.3	Acute Toxicity:	See Section 2.4									
11.4	Chronic Toxicity:	See Section 2.5	. 0	0 (	:f: - ! · ! ·	- 4- !		-:			
11.5	Suspected Carcinogen:	Selenious Acid is listed by IARC or		_			arcinogeni	city to hu	imans)		
11.6	Reproductive Toxicity:  Mutagenicity:	This product is not reported to cause This product is not reported to cause the product is not reported to product its not reported to product									
	Embryotoxicity:	This product is not reported to product is not r									
	Teratogenicity:	This product is not reported to product is not reported to cause									
	. oracogornony.	This product is not reported to cau									



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 3/14/2017 SDS Revision: 2.0 11. TOXICOLOGICAL INFORMATION – cont'd 117 Irritancy of Product: See Section 4.2 11.8 Biological Exposure Indices NE 11.9 Physician Recommendations: Treat symptomatically 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: There are no specific data available for this product. 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<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 The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. 49 CFR (GND): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC 14.1 ACID), 8, III, LTD QTY (IP VOL  $\leq$  5.0 L) IATA (AIR): 14.2 UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 0.5 L) IMDG (OCN): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC 14.3 ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L) 14.4 TDGR (Canadian GND): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L) ADR/RID (EU): UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC 14.5 ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L) SCT (MEXICO): 14.6 UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO FOSFORICO), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L) UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ADGR (AUS): 14.7 ACID), 8, III, LTD QTY (IP VOL ≤ 5.0 L) 15. REGULATORY INFORMATION 15.1 SARA Reporting Requirements: This product contains Selenious Acid and Phosphoric Acid, substances subject to SARA Title III, Section 313 reporting SARA TPO 15.2 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); Phosphoric Acid: 5,000 lbs (2,270 kg) 15.5 Other Federal Requirements 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). Selenious Acid is found on the following state criteria lists: Florida Toxic Substances List (FL), Massachusetts 15.7 State Regulatory Information: Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), Pennsylvania Right-to-Know List (PA), and Wisconsin Hazardous Substances List (WI). Phosphoric Acid is found on the following state criteria lists: FL, MA, MN, and 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) Other Requirements: 15.8 NA



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16.1	16.1 Other Information:  DANGER! TOXIC IF SWALLOWED. MAY CAUSE SEVERE SKIN BURNS OR EYE DAMAGE. MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep/Store away from clothing combustible materials. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection face protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Ring cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. KEEL LOCKED UP AND 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. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Birchwood Technologies' 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 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 N	

#### **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 whos			
	stopped receives manual chest compressions and breathing to circulate blood		
and provide oxygen to the body.			

#### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

#### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

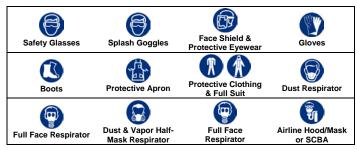
0	Minimal Hazard	
1 Slight Hazard		
2	2 Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	



#### PERSONAL PROTECTION RATINGS:

Α			
В			
С		THE STATE OF THE S	
D		THE STATE OF THE S	
Е			
F		H.	

G				
Н			H, III	
ı				
J		(E)	<b>FI</b>	
K	<b>F</b>		Ŵ	
Х	Consult y	rvisor or irections.	SOPs for	



#### 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

FLAMMABILI	FLAMMABILITY LIMITS IN AIR:				
Autoignition Temperature Minimum temperature required to initiate combustion in air with no other sour of ignition					
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source				
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source				

#### **HAZARD RATINGS:**

0	Minimal Hazard	FLAMMABILITY
1	Slight Hazard	\
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/ <b>\ \ \</b> \ <b>\</b>
W	Use No Water	HEALTH 💮
ох	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

#### TOXICOLOGICAL INFORMATION:

Lethal Dose (solids & liquids) which kills 50% of the exposed anime  LC 50 Lethal concentration (gases) which kills 50% of the exposed anime  ppm Concentration expressed in parts of material per million parts  TD 10 Lowest dose to cause a symptom  TCLO Lowest concentration to cause a symptom  TD 10 Lowest dose (or concentration) to cause lethal or toxic effects	
ppm Concentration expressed in parts of material per million parts  TD <sub>10</sub> Lowest dose to cause a symptom  TCLo Lowest concentration to cause a symptom	
TD <sub>Io</sub> Lowest dose to cause a symptom TCLo Lowest concentration to cause a symptom	
TCLo Lowest concentration to cause a symptom	
TD. ID. &ID or I owest dose (or concentration) to cause lethal or toxic effects	
10 10; ED 10; & ED 0 or Edward door (or confectituation) to dadde 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	
TL <sub>m</sub> Median threshold limit	
log K <sub>ow</sub> or log K <sub>oc</sub>   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	PSL Canadian Priority Substances List					
TSCA	TSCA U.S. Toxic Substance Control Act					
EU	EU European Union (European Union Directive 67/548/EEC)					
WGK	K Wassergefährdungsklassen (German Water Hazard Class)					

#### WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	<b>(*)</b>	<b>(2)</b>	(3)	$\odot$	(4)		
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:

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