PRECISION BRAND.

SAFETY DATA SHEET

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SDS Revisio

Перс	ared to OSHA, ACC, ANSI,	NOHSC, WHMIS, 2	2001/58 & 1272/2	008/EC Standard	S		SDS	Revision:	1.3	SD	S Revisio	on Date:	4/1/2015
		1.	PRODUC	T & COMI	PANY	IDE	NTIF	FICAT	ION				
1.1	Product Name:		ACK [®] GE					-	-				
1.2	Chemical Name:	Acid Mixture											
1.3	Synonyms:	45311, 45328											
1.4	Trade Names:	Tool Black [®] Ge	el										
1.5	Product Use:	Blackening So	lution for Iron ar	nd Steel									
1.6	Distributor's Name:	Precision Bran	d Products, Inc.										
1.7	Distributor's Address:	2250 Curtiss S	Street, Downers	Grove IL 6051	5 USA								
1.8	Emergency Phone:	ChemTrec	+1 (800) 424	-9300 / +1 ((703) 52	27-38	87 or	Poisc	on Cont	rol C	enter	+1 (8	55) 281-1742
1.9	Business Phone / Fax:		200 / +1 (630)										
2.1	Hazard Identification:	This was done 1		ZARDSI									
 ^{2.1} Hazard Identification: This product is classified as a hazardous substance and as dangerous goods according to the classification criteria of [NOHSC: 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. MAY INTENSIFY FIRE; OXIDIZER. Classification: Acute Toxicity-Inh 3; Skin Corrosion 1A; Oxidizing Liquid 3 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): 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. 3. COMPOSITION & INGREDIENT INFORMATION 													
		J. U	JIMPUSITI		GREDI	ENT		ORM		1			
		3. 60	JMPUSITI			ENT	INF				IN AIR (n	na/m³)	
		3. 00			REDI				ATION EXPOSURE IOHSC		<u>IN AIR (n</u> OSHA		
		3. C				AC		N	EXPOSURE IOHSC ppm				
СНЕМІ	CAL NAME/S)					AC	GIH om	ES-	EXPOSURE IOHSC ppm ES- ES		OSHA ppm		OTHER
	CAL NAME(S)	CAS No. 7732-18-5	RTECS No. ZC0110000	EINECS No. 231-791-2	REDI % 60-100	AC	GIH	ES-	EXPOSURE IOHSC ppm	LIMITS	OSHA ppm V STEL		OTHER
WATE POLY	R OXYETHYLENE STEARYL	CAS No. 7732-18-5	RTECS No.	EINECS No.	%	AC pr TLV	GIH om STEL	ES- TWA	EXPOSURE IOHSC ppm ES- ES STEL PEA	K TLV	OSHA ppm V STEL E NE	IDLH	OTHER
WATE POLY	R	CAS No. 7732-18-5 9005-00-9	RTECS No. ZC0110000	EINECS No. 231-791-2 500-017-8	% 60-100 7-13	AC Pr TLV NE NA	GIH om STEL NE NA	ES- TWA NF	EXPOSURE IOHSC ppm ES- ES STEL PEA NF NF NF NF	K TL NE	OSHA ppm V STEL E NE	IDLH NE	OTHER
WATE POLY WAX I	R OXYETHYLENE STEARYL	CAS No. 7732-18-5	RTECS No. ZC0110000	EINECS No. 231-791-2	% 60-100	AC pr TLV NE	GIH om STEL NE	ES- TWA NF	EXPOSURE IOHSC ppm ES- ES STEL PEA NF NF	K TL NE	OSHA ppm V STEL E NE	IDLH NE	OTHER
WATE POLY WAX I CUPR	R OXYETHYLENE STEARYL DERIVATIVES	CAS No. 7732-18-5 9005-00-9 7758-99-8 Acute Toxicit 7783-00-8 Acute Toxicit	RTECS No. ZC0110000	EINECS No. 231-791-2 500-017-8 NA 231-974-7	% 60-100 7-13 5-10 1-5	AC pp TLV NE (1) (0.2)	GIH om STEL NE NA NA	NF NF (0.2)	EXPOSURE ppm ES- STEL PEA NF NF NF NF NF NF	E LIMITS	OSHA ppm V STEL NE A NA) NA	IDLH NE 1000 NA	
WATE POLYI WAX I CUPR SELEI	R OXYETHYLENE STEARYL DERIVATIVES IC SULFATE NIOUS ACID	CAS No. 7732-18-5 9005-00-9 7758-99-8 Acute Toxicit 7783-00-8 Acute Toxicit H400, H410 7697-37-2	RTECS No. ZC0110000 NA NA y 4; H302 VS7175000 y-Inh 3; Acute Tox QU5775000	EINECS No. 231-791-2 500-017-8 NA 231-974-7 icity-Oral 3; STO 231-714-2	% 60-100 7-13 5-10 1-5 T-Repeate 1-5	AC pp TLV NE (1) (0.2)	GIH om STEL NE NA NA	NF NF (0.2)	EXPOSURE ppm ES- STEL PEA NF NF NF NF NF NF	LIMITS K K NE NA (1) (0.2 Chronic	OSHA ppm V STEL NE NA NA NA NA NA NA NA NA NA	IDLH NE 1000 NA	
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Severe burns of mouth, throat, stomach. Ingestion:

Inhalation: Severe irritation or burns in respiratory tract and mucous membranes. Possible lung damage.



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SAFETY DATA SHEET SDS Revision: 1.3 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 4/1/2015 4. FIRST AID MEASURES – cont'd Symptoms of Overexposure: Redness, burning, irritation, and swelling around eyes Eyes: Redness, burning, itching, rash, blistering of skin. Skin: Nausea, vomiting, severe abdominal pain. Ingestion: Inhalation: Coughing, wheezing, swelling of throat, irritation in mucous membranes, difficulty breathing. Acute Health Effects: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if swallowed. Causes burns. May be harmful if absorbed through skin. Chronic Health Effects: May damage the nervous system, kidney and/or liver. Target Organs: Eyes, Skin, Nervous System, Kidneys, Liver, Respiratory System. Medical Conditions HEALTH Pre-existing dermatitis, other skin conditions, and disorders of the Aggravated by Exposure: target organs (eyes, skin, and respiratory system) or impaired kidney FLAMMABILITY function may be more susceptible to the effects of this substance. **PHYSICAL HAZARDS PROTECTIVE EQUIPMENT** EYES SKIN LUNGS 5. FIREFIGHTING MEASURES Fire & Explosion Hazards: Non-flammable. May react with metals to release hydrogen gas, which can form explosive mixtures with air. May intensity fire; oxidizer. Extinguishing Methods: Use fire-extinguishing media appropriate for surrounding materials. 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 as for surrounding materials. Hazardous decomposition products may be released. Thermal degradation may produce oxides of carbon, phosphorous, selenium and/or nitrogen, hydrocarbons and/or derivatives. Fire should be fought from a safe distance. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURES Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Spills Equipment (PPE). Use safety glasses or safety goggles and face shield; use gloves and other protective clothing (e.g., apron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible, inert material such as vermiculite or sand to soak up the product and place into a container for later disposal. Large Spills: Keep incompatible materials (e.g., organics such as oil) away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. Recover as much free liquid as possible and collect in acid-resistant container. Use absorbent to pick up residue. Avoid discharging liquid directly into a sewer or surface waters. 7. HANDLING & STORAGE INFORMATION Work & Hygiene Practices: Avoid breathing mists or spray. Avoid eye and skin contact. Wear protective equipment when handling product. Keep out of the reach of children. Do not eat, drink or smoke when handling this product. Wash thoroughly after handling. Do not expose to heat and flame. Use only in ventilated areas. Keep out of the reach of children. Immediately clean-up and decontaminate any spills or residues. Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Store in acid-resistant containers. Keep containers covered when not in use. Avoid temperatures above 40 °C (120 °F). Keep away from incompatible substances (see Section 10). Protect containers from physical damage Special Precautions: Empty containers may retain hazardous product residues. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION ACGIH NOHSC OTHER OSHA Exposure Limits: $ppm (mq/m^3)$ ES-STEL STEL CHEMICAL NAME(S) TLV STEL ES-TWA ES-PEAK PEL IDLH SELENIOUS ACID (0.2) NA NF NF NA NA (0.2) (0.2)NITRIC ACID 2 4 2 NF NF 2 NA 25 CUPRIC SULFATE (1) NA NF NF NF (1) NA 1000 Ventilation & Engineering Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the Controls: handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eyewash station). 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 8-3 the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia.



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8. EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd 8.4 Eye Protection: Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended. Image: Control of the state shield is also recommended. 8.5 Hand Protection: Wear protective, chemical-resistant gloves (e.g., neoprene) when using or handling this product. Image: Control of the state shield is also recommended. 8.6 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:	1.017
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. STABILITY & REACTIVITY
10.1	Stability:	Stable at normal temperatures.
10.2	Hazardous Decomposition Products:	Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenide. Thermal decomposition may produce selenium, nitrogen, phosphoric and copper oxides.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Excessive heat, shock, friction.
10.5	Incompatible Substances:	Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustible organic materials, most metals.
		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: YES
11.2	Toxicity Data:	<u>Cupric Sulfate</u> : 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:	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 2.3
11.8	Biological Exposure Indices:	NE
11.9	Physician Recommendations:	Treat symptomatically.
		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: EC_{50} (Daphnia magna, 12h) = 4.6 mg/L
12.3	Lifecto on Aquatic Life.	



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	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)				
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14. TRANSPORTATION INFORMATION

14.1	49 CFR (GND):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, (LTD QTY, IP VOL ≤ 5.0 L)	
14.2	IATA (AIR):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, (LTD QTY, IP VOL ≤ 0.5 L)	\bigcirc
14.3	IMDG (OCN):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, (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, II, (LTD QTY, IP VOL ≤ 5.0 L)	CORROSIVE
14.5	ADR/RID (EU):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, (LTD QTY, IP VOL \leq 5.0 L)	8
14.6	SCT (MEXICO):	UN3264, LIQUIDOS, CORROSIVOS, ACIDO, INORGANICO, N.E.P. (ACIDO SELENIO, ACIDO FOSFORICO), 8, II, (CANTIDAD LIMITADA, IP VOL ≤ 5.0 L)	$\langle \mathbf{Y} \rangle$
14.7	ADGR (AUS):	UN3264, CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (SELENIOUS ACID, PHOSPHORIC ACID), 8, II, (LTD QTY, IP VOL ≤ 5.0 L)	· ·

15. REGULATORY INFORMATION

		15. REGULATORY INFORMATION
15.1	SARA Reporting Requirements:	This product contains <u>Nitric Acid</u> , <u>Cupric Sulfate</u> and <u>Selenious Acid</u> , substances subject to SARA Title III, section 313 reporting requirements.
15.2	SARA Threshold Planning Quantity:	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 Quantity (RQ):	Selenious Acid: 10 lbs (4.54 kg); Nitric Acid: 1,000 lbs (454 kg); Cupric Sulfate: 10 lbs (4.54 kg)
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: 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). <u>Nitric Acid</u> 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 (MA), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).
15.8	Other Requirements:	The primary components of this product are listed in Annex I of EU Directive 67/548/EEC. <u>Selenious Acid</u> : Corrosive (C), Toxic (T). <u>Risk Phrases</u> (R): R35 – Causes severe burns. <u>Safety</u> <u>Phrases</u> (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.



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		16. OTHER INFO	ORMATION			
16.1	Other Information:	DANGER! POISON. CORROSIVE. May be fatal if swallowed or harmful if inhaled. Causes severe burns to eyes and skin. OXIDIZER. Combustible materials that contact this product may ignite more easily and burn more intensely. Avoid shock, heat, and friction.				
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.				
16.3	Disclaimer:	government regulations must be reviewed for ap Products Inc.'s knowledge, the information conta suitability or completeness is not guaranteed and The information contained herein relates only	SHA's Hazard Communication Standard, 29 CFR §1910.1200. Other plicability to this product. To the best of ShipMate's & Precision Brand ined herein is reliable and accurate as of this date; however, accuracy, d no warranties of any type, either expressed or implied, are provided. to the specific product(s). If this product(s) is combined with other idered. Data may be changed from time to time. Be sure to consult the			
16.4	Prepared for:	Precision Brand Products, Inc. 2250 Curtiss Street Downers Grove, IL 60515 USA Tel: +1 (630) 969-7200 Fax: +1 (630) 969-0310 http://www.precisionbrand.com	PRECISION BRAND.			
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

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists		
TLV	TLV Threshold Limit Value		
OSHA	U.S. Occupational Safety and Health Administration		
PEL	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:

Α	\bigcirc		G	0			
В			Н			T.	
С			I				
D			J	0			
Е			κ	Î			
F			X	Consult y for speci	/our su al hand	pervisor o ling direct	r SOPs ions.
Sa	fety Glasses	Splash Goggles		Shield & ive Eyewe	ar	Glove	es
	Boots	Synthetic Apron		ive Clothin	ng	Dust Res	birator
Full F	Face Respirator	Dust & Vapor Half- Mask Respirator		III Face spirator	۵	Airline Hoo or SCI	

OTHER STANDARD ABBREVIATIONS:

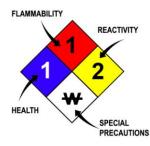
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus
Flam.	Flammable
Liq.	Liquid
Sol.	Solid
Tox.	Toxicity
Irrit.	Irritation
Sens.	Senitization
Ox.	Oxidizing
Corr.	Corrosion
Repr.	Reproductive (Harm)
Asp.	Aspiration
Inh.	Inhalation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

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
тс	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:

\bigcirc	۲	٨		1			
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:

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с	Е	F	Ν	0	т	Xi	Xn
Corrosive	Explosive	Flammabl e	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