

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

SAFETY DATA SHEET

SDS Revision: 1.0

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SDS Revision Date: 10/25/2018

1. PRODUCT & COMPANY IDENTIFICATION RIBUTOR 1.1 Product Name: BARRICADE RUST PREVENTIVE LIQUID Steve's Wholesale Ltd. Units 5 - 7 / 408 The Esplanade 12 Chemical Name: NA sland Bay Wellington 6023 1.3 Synonyms 33128, 33132 team@steveswholesale.n; 1.4 Trade Names: Barricade Rust Preventive Liquid Emergency Contact: Steve Collings 1.5 Product Use: 0800 303 303 **Rust Preventative** 0274 905 708 1.6 Distributor's Name: Birchwood Casey, LLC Poison Control 0800 POISON (0800 764 766) Distributor's Address 1.7 3260 Winpark Drive, New Hope, MN., 55427 USA 1.8 Emergency Phone: ChemTrec +1 (800) 424-9300 / +1 (703) 527-3887 or Poison Control Center +1 (866) 291-7152 Business Phone / Fax: 1.9 +1 (952) 388-6717 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 NOHSC: 1088 (2004) and ADG Code (Australia). DANGER! MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. MAY CAUSE CANCER. FLAMMABLE LIQUID AND VAPOR. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES EYE IRRITATION. Classification: Asp. Tox. 1, Flam. Liq. 3, Carc. 1A, Skin Sens. 1B, Eye Irrit. 2B 22 Label Elements: Hazard Statements (H): H304 - May be fatal if swallowed and enters airways. H350 - May Cause Cancer. H226 – Flammable liquid and vapor. H317 – May cause an allergic skin reaction. H320 – Causes eye irritation. Precautionary Statements (P): P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat. hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P261 – Avoid breathing fume/mist/vapors/spray. P272 – Contaminated work clothing should not be allowed out of the workplace. P264 - Wash thoroughly with soap and water after handling. P280 - Wear protective gloves/ eye protection/ face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331 - Do NOT induce vomiting. P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P308+P313 - IF exposed or concerned: Get medical advice/ attention. P370+P378 - In case of fire: Use Water, Foam, CO2, Dry Chemical to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container through licensed treatment, storage or disposal facility. 2.3 Other Warnings: KEEP OUT OF REACH OF CHILDREN. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA ppm ppm ppm ES-ES-ES-CHEMICAL NAME(S) CAS No. RTECS No. EINECS No. TLV STEL TWA STEL PEAK PEI STEL IDLH OTHER 64742-47-8 OA5504000 265-149-8 55-70 NF NF NA NA NF (5)NA NA STODDARD SOLVENT Asp. Tox. 1; H304 HEAVY PETROLEUM INA NA 15-30 NA NA NA NF NF NF (5) NA NA OXYGENATES, BARIUM NEUTRALIZED SEVERELY HYDROTREATED 64742-52-5 NA 265-155-0 5-20 (10) (5) NA NA (5) NA NA OIL MIST (5) NAPHTHENIC PETROLEUM OIL * Asp. Tox. 1; H304 PROPYLENE GLYCOL 107-98-2 UB7700000 203-539-1 1-5 100 150 100 NF NF 100 150 NA MONOMETHYL ETHER Flam. Liq. 3; STOT SE 3; H226, H336 * < 3% DIMETHYL SULFOXIDE (DMSO) per IP346 4. FIRST AID MEASURES 41 First Aid: DO NOT INDUCE VOMITING. Contact Poison Control Center +1 (866) 291-7152 or the nearest Poison Ingestion: 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. Inhalation: Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial respiration. Seek immediate medical attention.



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		4. FIRST AID MEASURES – cont'	d	
4.2	Effects of Exposure:	Ingestion: If product is swallowed, may cause nausea, temporary gastrointestinal irritation. Vomiting and/or diarrhea. Eyes: Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering. Skin: May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals. Inhalation: None expected.		
4.3	Symptoms of Overexposure:	Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. Overexposure in eyes may cause redness, itching and watering. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.		
4.4	Acute Health Effects:	Moderate irritation to eyes and skin near affected areas. Additio drowsiness, dizziness, headaches and nausea.	nally, high concentrations of va	pors can cause
4.5	Chronic Health Effects:	The material may accentuate any pre-existing dermatitis condition.		
4.6	Target Organs: Medical Conditions	Eyes, Skin, Respiratory System		
4.7	Aggravated by Exposure:	Persons with pre-existing skin disorders, eye problems, or impaired kidney function may be more susceptible to the effects of the	HEALTH FLAMMABILITY	3
		substance.	PHYSICAL HAZARDS	0
			PROTECTIVE EQUIPMENT	B
			EYES SKIN	
		5. FIREFIGHTING MEASURES		
5.1	Fire & Explosion Hazards:	This material can burn but will not readily ignite. This material will r above the flash point temperature that can ignite when exposed to a so spaces, heated vapor can ignite with explosive force. Mists or spray below the flash point. Carbon dioxide, carbon monoxide, smoke, furr and trace oxides of sulfur, phosphorus, zinc and nitrogen. Also, depen- use, low concentrations of hydrogen sulfide can be released.	ource of ignition. In enclosed s may burn at temperatures nes, unburned hydrocarbons	•
5.2	Extinguishing Methods:	Dry Chemical, Foam, Carbon Dioxide, and Water Fog.		2
5.3	Firefighting Procedures:	Keep containers cool until well after the fire is out. Fight fires as for surrounding materials. As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) and full protective gear. 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. Avoid spraying water directly into storage containers because of danger of boil-over. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.		
		6. ACCIDENTAL RELEASE MEASU	RES	
6.1	Spills: Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective 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., oxidizers, strong acids, alkalis) away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Wear appropriate protective equipment including respiratory protection as conditions warrant. Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorben material may pose the same hazard as the spilled product.			ve clothing (e.g., non-combustible, sal. pwind and away /ear appropriate Move containers confined areas. on-combustible, sal according to
		7. HANDLING & STORAGE INFORMA	TION	
7.1	Work & Hygiene Practices:	Eating, drinking and smoking should be prohibited in areas where Workers should wash hands and face before eating, drinking and smok equipment before entering eating areas. Do not ingest. Avoid contact or mist.	this material is handled, stored king. Remove contaminated clothir with eyes, skin and clothing. Avoid	ng and protective breathing vapor
7.2	Storage & Handling:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (See Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.		ner tightly closed pright to prevent
7.3	Special Precautions:	ecautions: Empty containers may contain product residue. Do not pressurize, cut, heat or weld empty containers. Do not reuse empty containers without commercial cleaning or reconditioning.		



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		8. EXPOSURE CONT			K2ON		KUIE				
8.1	Exposure Limits:		AC	GIH		NOHSC			OSHA		OTHER
	ppm (mg/m ³)	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	
		STODDARD SOLVENT	NA	NA	NF	NF	NF	(5)	NA	NA	
		SEVERELY HYDROTREATED NAPHTHENIC PETROLEUM OIL * contains less than 3% DMSO	(5)	(10)	(5)	NA	NA	(5)	NA	NA	OIL MIST
		PROPYLENE GLYCOL MONOMETHYL ETHER	100	150	100	NF	NF	100	150	NA	
8.2	Ventilation & Engineering Controls:	General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, vapor controls, filters or engineering modifications to the process									
8.3	Respiratory Protection:	equipment will be necessary to reduce emissions to acceptable levels. No special respiratory protection is required under typical circumstances of use or handling. In instances where mist or vapors of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.									
0.4	Eye Protection:	Wear protective eyewear (e.g., sa Always use protective eyewear w soft lenses may absorb and conce	hen clea	ning spil							0
8.5	Hand Protection:	rubber gloves for routine industri	If anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex or rubber gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the E.C. member states.								
8.6	Body Protection:	No apron required when handling wash stations and deluge showe large quantities of this product, wa	small qua rs should	antities. N I be avai	When han lable. Up	on comp	oletion of v	work activ			
			0.011				TIEO				
<u>.</u>		9. PHYSICAL				JPER	IIE5				
9.1	Appearance:	Brown liquid impregnated in cloth	or in an a	ipplication	n pen						
9.2	Odor:	Kerosene like odor									
9.3	Odor Threshold:	NA									
9.4	pH:	NA									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling Range:	148.8 °C (300 °F)									
9.7	Flashpoint:	43.8 °C (111 °F) CC									
9.8	Upper/Lower Flammability Limits:	UEL: 6 / LEL 1									
9.9	Vapor Pressure:	NA									
9.10	Vapor Density:	>1 (Air = 1)									
9.11	Relative Density:	0.825									
9.12	Solubility:	Negligible									
9.13	Partition Coefficient (log Pow):	NA									
9.14	Autoignition Temperature:	335 °C (635 °F)									
9.15	Decomposition Temperature:	NA									
9.16	Viscosity:	1.56 cSt (1.56 mm ² /sec) at 40 °C	2 02 cSt	(2 02 mr	n ² /sec) at	25 ℃					
9.17	Other Information:	VOC 70%	2.02 000	(2.02 111	1170007 at	20 0					
		10. STA	BILIT	Y & R	EACTI	νιτγ					
10.1	Stability:	This product is stable under norma									
10.2	Hazardous Decomposition Products:	Oxides of carbon (CO, CO ₂) and c	Ŭ								
40.0	Hazardous Polymerization:	Will not occur.									
10.3 10.4	Conditions to Avoid:	Open flames, high heat and direct Strong oxidizing agents (chlorates									



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	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: NO			
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is			
		available for some of the components of the product and is presented below: LD ₅₀ , (oral, rat): 5,130 mg/kg (Dipropylene Glycol Monomethyl Ether); 1,720 mg/kg (mono-Ethanolamine)			
11.3	Acute Toxicity:	Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.			
11.4	Chronic Toxicity:	This material may aggravate any pre-existing skin condition (e.g., dermatitis).			
1.5	Suspected Carcinogen:	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to www.P65Warnings.ca.gov.			
1.6	Reproductive Toxicity:	This product is not reported to produce 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 Indices:	NE			
11.9	Physician Recommendations:	Treat symptomatically.			
	1	12. ECOLOGICAL INFORMATION			
12.1	Environmental Stability:	Analysis for ecological effects has not been conducted on this product. However, if spilled, this product and a contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the coating action associated will petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl.			
12.2	Effects on Plants & Animals:	There are no specific data available for this product. An environmental fate analysis has not been conducted on the specific product. However, plants and animals may experience harmful or fatal effects when coated with petroleur based products.			
12.3	Effects on Aquatic Life:	Petroleum-based (mineral) lube oils will normally float on water. In stagnant or slow-flowing waterways, an oil layer c cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into t water. With time, if not removed, oxygen depletion in the waterway can result in a loss of marine life or create a anaerobic environment. Severe algae growth can reduce oxygen content in the water possibly below levels necessary support marine life.			
		13. DISPOSAL CONSIDERATIONS			
13.1	Waste Disposal:	Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropria disposal method for the ingredients listed in Section 3. Any disposal practice must be in compliance with local, state, a			
	Waste Disposal: Special Considerations:	Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropria disposal method for the ingredients listed in Section 3. Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Disposal of hazardous waste must be through by a licensed treatment, storage or disposal facility (TSDF).			
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SDS Revision: 1.0

		15. REGULATORY INFORMATION HSR002669			
15.1	SARA Reporting Requirements:	This product contains Propylene Glycol Monomethyl Ether, a substance subject to SARA Title III, Section 313 reporting requirements.			
15.2	SARA TPQ:	There are no specific Threshold Planning Quantities for the components of this product.			
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.			
15.4	CERCLA Reportable Quantity:	NA			
15.5	Other Federal Requirements:	<u>Clean Water Act (CWA) 311</u> : Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at +1 (800) 424-8802.			
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS 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 D2B (Other Toxic Effects).			
15.7	State Regulatory Information:	Propylene Glycol Monomethyl Ether is found on the following state criteria lists: FL, MA, MN, PA and 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: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN) & Pennsylvania Right-to-Know List (PA). No other ingredients are found on 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), Minnesota Hazardous 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).			
15.8	Other Requirements:	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to <u>www.P65Warnings.ca.gov</u> .			
		16. OTHER INFORMATION SW revised 30.12.2020			
16.1	Other Information:	DANGER! MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. MAY CAUSE CANCER. FLAMMABLE			
		LIQUID AND VAPOR. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES EYE IRRITATION. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Avoid breathing fume/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wash thoroughly with soap and water after handling. Wear protective gloves/ eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/ attention. In case of fire: Use Water, Foam, CO ₂ , Dry Chemical to extinguish. Store in a well-ventilated place. Keep cool. KEEP 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 Casey, LLC 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 Casey, LLC 3260 Winpark Drive New Hope, MN 55427 USA Tel: +1 (952) 388-6717 Email: customerservice@birchwoodcasey.com http://www.birchwoodCasey.com			
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			



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

SDS Revision: 1.0

SDS Revision Date: 10/25/2018

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	ACGIH American Conference on Governmental Industrial Hygienists	
IDLH	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:

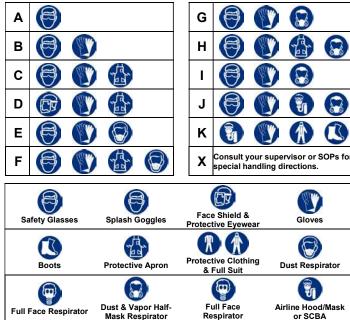
CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

PERSONAL PROTECTION RATINGS:



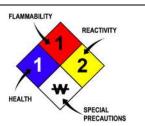
OTHER STANDARD ABBREVIATIONS:

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

FLAMMABILITY LIMITS IN AIR:					
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 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	EI AN
1	Slight Hazard	FLAN
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	<
ALK	Alkaline	
COR	Corrosive	/
W	Use No Water	HEAL
OX	Oxidizer	
TREFOIL	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	Concentration expressed in parts of material per million parts
TD _{lo}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC ₀ , LC ₁₀ , & LC ₀	
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 Koc	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:

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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:

	٨	٨	\Diamond			\diamondsuit		
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment