HARBOR FREIGHT TOOLS

Quality Tools at Ridiculously Low Prices

SAFETY DATA SHEET

Page 1 of 6 **HFT-62575**

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 1.1

SDS Revision Date: 7/25/2015

1. PRODUCT & COMPANY IDENTIFICATION		
.1 Product Name:	BATTERY FOR INDOOR WIRELESS REMOTE SYS	
.2 Chemical Name:	Lithium Manganese Dioxide Battery	
.3 Synonyms:	P/N 62575	
.4 Trade Names:	Harbor Freight Tools	
.5 Product Uses & Restrictions:	Battery	
.6 Distributor's Name:	Harbor Freight Tools, Inc.	
.7 Distributor's Address:	26541 Agoura Road, Calabasas, CA 91302 USA	
.8 Emergency Phone:	CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 676687)	
.9 Business Phone / Fax:	+1 (800) 423-2567	

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: 1008 (2004) and ADG Code (Australia).

If handled properly, there are no known serious health risks. Inhalation, absorption & ingestion are unlikely under normal conditions as the battery is hermetically sealed within the device. However, if device is crushed, or compromised in a fire, contact with the lithium metal battery and material may cause damage to eyes & skin tissue as well as the nose, throat, lungs & respiratory tract if inhaled. Please strictly observe safety instructions.

The following statements apply to the contents of the lithium metal battery if it has been compromised (e.g., opened, crushed, punctured). These statements do not apply to the hermetically sealed device, which has not been damaged or compromised.

DANGER! CONTACT WITH WATER RELEASES FLAMMABLE GASES WHICH MAY IGNITE SPONTANEOUSLY. CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY BE HARMFUL IF SWALLOWED.

<u>Hazard Statements</u> (H): H260 - In contact with water releases flammable gases which may ignite spontaneously. H314 - Causes severe skin burns and eye damage. EU014 – Reacts violently with water.

<u>Precautionary Statements</u> (P): P223 – Keep away from any possible contact with water, because of violent reaction and possible flash fire. P264 – Wash hands and exposed skin surfaces thoroughly with warm water and soap after handling. P280 – Wear protective gloves/eye protection/face protection. P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P310 – Immediately call a Poison Control Center or doctor/physician. P370+P378 – In case of fire: Use Lith-X powder, Class D Fire Extinguisher, Dry Lithium Chloride, or Graphite Powder for extinction. P402+P404 – Store in a dry place. Store in a closed container. P501 – Dispose of contents through a licensed treatment, storage, disposal facility (TSDF).



3. COMPOSITION & INGREDIENT INFORMATION

					EXPOSURE LIMITS IN AIR (mg/m ³)								
					AC	GIH		NOHSC			OSHA		
					p	om		ppm			ppm		
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
MANICANIECE DIOVIDE	1313-13-9	OP0350000	215-202-6	15-40	(5)	NA	(5)	NF	NF	(5)	NA	NA	
MANGANESE DIOXIDE	Acute Tox. Or	al 4; Acute Tox. I	nh. 4; H302, H33	2									
DDODY! ENE CARRONATE	108-32-7	FF9650000	203-572-1	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
PROPYLENE CARBONATE	Eye Irrit. 2B; I	H319											
4.2 DIMETLIOVVETUANE	110-71-4	KI1451000	NA	3-7	3	NA	3	NF	NF	NA	NA	NA	
1,2-DIMETHOXYETHANE													
OD A DUNTE	7782-42-5	MD9659600	231-955-3	0.5-1.5	(2)	NA	(2)	NF	NF	NA	NA	NA	
GRAPHITE	Eye Irrit. 2; S	TOT SE 3; H319,	H335										
LITLULINA	7439-93-2	OJ5540000	231-102-5	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
LITHIUM	Water React	1; Skin Corr. 1B; I	H260, H314		•		•		•		•	•	
LITHIUM PERCHLORATE	7791-03-9	NA	232-237-2	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	•
	Ox. Sol. 2; Sk	in Irrit. 2; Eye Irrit	:. 2B; STOT SE 3	; H272, H3	315, H3	19, H33	5						

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			4 FIRST AID MEASURES		
	L =	T =	4. FIRST AID MEASURES		
4.1	First Aid:	Device is he Ingestion:	rmetically sealed. Exposure to lithium battery component is Swallowing a battery can be harmful. 3 volt lithium coin removed immediately. Leakage, chemical burns and p ingestion. Seek medical attention immediately. Have physi HOTLINE for advice and follow-up at +1 (202) 625-3333 co	n batteries lodged in the esophag otential perforation can occur wi cian call the NATIONAL BATTER`	gus should be ithin hours of
		Eyes:	Contents of an open battery can cause severe irritation. in the eyes, flush with copious amounts of lukewarm water	Splashes are not likely; however, i	
		<u>Skin</u> :	Contents of an open battery can cause skin irritation. Reareas. Wash thoroughly with soap and water.		
		Inhalation:	Remove victim to fresh air at once. If breathing is diffic artificial respiration. Keep person warm, quiet and get med		ng stops give
4.2	Effects of Exposure:	Ingestion:	Not anticipated under normal handling and use. Irritation following exposure to leaking battery.	to the internal/external mouth ar	ea may occur
		Eyes:	Not anticipated under normal handling and use. If de- irritation may occur following exposure to leaking battery.	vice is damaged, eye and muco	us membrane
		Skin:	Not anticipated under normal handling and use. Irritation r	nay occur following exposure to lea	aking battery.
		Inhalation:	Not anticipated. Respiratory irritation may occur if fumes batteries.		
4.3	Symptoms of Overexposure:	Ingestion:	Not anticipated. Irritation may occur following exposure to	leaking battery.	
		Eyes:	Not anticipated. If device is damaged, eye and mucous m to a leaking battery.		wing exposure
		Skin:	Not anticipated. Irritation may occur following expo- overexposure may include redness, itching, and irritation o		otoms of skin
		Inhalation:	Not anticipated. Respiratory irritation may occur if fumes leaking batteries. Respiratory irritation, headache, irritabil or an abundance of leaking batteries.		
4.4	Acute Health Effects:	No acute he	alth effects reported by the manufacturer.		
4.5	Chronic Health Effects:		ealth effects reported by the manufacturer.		
4.6	Target Organs:		cturer has not reported specific data.		
4.7	Medical Conditions		ray should be obtained promptly to determine battery	HEALTH	1
	Aggravated by Exposure:		satteries lodged in the esophagus should be removed	FLAMMABILITY	0
			since leakage, burns and perforation can occur as soon as	PHYSICAL HAZARDS	1
		4-6 hours af	er ingestion.		В
				PROTECTIVE EQUIPMENT	<u> B </u>
			5. FIREFIGHTING MEASURES		
5.1	Fire & Explosion Hazards:	As with any fire, wear self-contained breathing apparatus to avoid inhalation of hazardous decomposition products (See Section 2). Water will cool the fire but may react with available lithium in the batteries producing flammable hydrogen. DO NOT RECHARGE. As a typical sealed battery they may rupture when exposed to excessive heat. Rupture may expose lithium to moisture causing it to react or release flammable or corrosive materials. Do not accumulate undischarged batteries together. In case of fire where lithium batteries are present, flood area with water or smother with a Class D fire extinguisher appropriate for lithium metal, such as Lith-X. Virtually all fires involving lithium batteries can be controlled by flooding with water. However, the contents of the battery will react with water and form hydrogen gas. In a confined space, hydrogen gas can form an explosive			
		burning lithiu	his situation, smothering agents are recommended. A smo im batteries. Emergency Responders should wear self-coi im manganese dioxide batteries produce toxic and corrosive	ntained breathing apparatus.	0
5.2	Extinguishing Methods:	Lith-X-Powder, Class D Fire Extinguisher, Dry Lithium Chloride, Graphite Powder. Not flammable under normal conditions. However, battery will burn if involved in a fire. Call fire department. Cool exterior of battery if exposed to fire to prevent rupture. The electrolyte vapors generated by heat or fire are corrosive.			
5.3	Firefighting Procedures:	hydrogen ga until well afte contained be until well afte Fight fire up water supply approved po	E WATER, moist sand, CO ₂ , class ABC or soda ash exting is may be evolved which can form an explosive mixture with ear the fire is out, do NOT use water. As in any fire, wear freathing apparatus (pressure-demand) and full protective get the fire is out. Use water spray to cool fire-exposed surfaction. Prevent runoff from fire control or dilution from enterly, or any natural waterway. Firefighters must use full but sitive pressure self-contained breathing apparatus to protector decomposition products and oxygen deficiencies.	th air. Keep containers cool MSHA/NIOSH approved self- lear. Keep containers cool less and to protect personnel. ring sewers, drains, drinking linker gear including NIOSH-	

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SDS Revision: 1.1 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 7/25/2015 6. ACCIDENTAL RELEASE MEASURES None under normal conditions. If the contents leak, observe the following instructions: Secure spill area and maximize 6.1 Spills: ventilation. Stop spill or leak at source if safely possible. Deny entry to all unprotected individuals. Individuals involved in the cleanup must wear appropriate personal protective equipment to avoid breathing vapors or touching liquid. Recover or cover with inert absorbent material and place into appropriate container(s) for disposal. If in water remove if safe to do so. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers or any natural waterway or drinking supply. Spills are unlikely as the battery is enclosed hermetically sealed device. Keep spills and cleaning runoffs out of drains, municipal sewers and open bodies of water. 7. HANDLING & STORAGE INFORMATION Work & Hygiene Practices: DO NOT swallow, apply excessive force to the positive terminal, drop, weld the terminal or wire to the body of the battery 7.1 directly, short-circuit the battery, charge, forcibly discharge, heat, expose to open flame, disassemble, reverse the positive and negative terminals when mounting, use different batteries together, touch any liquid that leaks from the battery, or hold the battery for an extended period. 7.2 Storage & Handling: Keep battery away from water. Never store in hot or very humid place. Storage and handling areas should be equipped with proper containment to capture and neutralize spills. Special Precautions: Do not expose to excessive physical shock or vibration. Storage and use areas should be equipped with eyewash stations and safety showers 8. EXPOSURE CONTROLS & PERSONAL PROTECTION 8.1 Exposure Limits: NOHSC OSHA OTHER ppm (mg/m³) ES-TI V STFI CHEMICAL NAME(S) STFI TWA STFI PEAK PEL IDLH MANGANESE DIOXIDE (5)NA (5)NF NF (5)NA NA **GRAPHITE** NF NA (2)NA (2) NF NA NA 1,2-DIMETHOXYETHANE NF NF NA NA NA 3 NA 3 8.2 Ventilation & Engineering General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Controls: decontamination equipment is available (e.g., sink, safety shower, eye-wash station). Upon completion of work activities involving large quantities of this product (fluid), wash any exposed areas thoroughly with soap and water 8.3 Respiratory Protection: 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. Avoid eye contact. Wear protective eyewear (e.g., safety glasses with side-shield) at all times when 8.4 Eve Protection: handling this product. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants. Have suitable eye wash water available. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). 8.5 Hand Protection: Use gloves constructed of chemical-resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, or the EU member states. Do not wear rings, watches or jewelry that could entrap the material against the skin. 8.6 Body Protection: No apron required when handling sealed undamaged battery. Where contact is likely corrosiveresistant apron, clothing and boots. Protective clothing, if used, should include long-sleeves, apron, boots and additional facial protection. If necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA. 9. PHYSICAL & CHEMICAL PROPERTIES Appearance: NA 9.2 Odor: Odorless 9.3 Odor Threshold: NA 94 :Hq NA 9.5 Melting Point/Freezing Point: NA 9.6 Initial Boiling Point/Boiling NA Range: 97 Flashpoint: NA 9.8 Upper/Lower Flammability NA Limits: 99 Vapor Pressure: NA Vapor Density: 9 10 NA 9.11 Relative Density: NA 9.12 Solubility: Insoluble 9.13 Partition Coefficient (log Pow): NA 9.14 Autoignition Temperature: NA 9.15 Decomposition Temperature: NA



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		9. PHYSICAL & CHEMICAL PROPERTIES – cont'd		
9.16	Viscosity:	NA NA		
9.17	Other Information:	NA NA		
		10. STABILITY & REACTIVITY		
10.1	Stability:	Stable under normal conditions; unstable with heat or contamination or if broken or leaking.		
10.2	Hazardous Decomposition Products:	Sulfur dioxide, hydrogen chloride, hydrogen.		
10.3	Hazardous Polymerization:	Will not occur.		
10.4	Conditions to Avoid:	Prolonged overcharge; sources of ignition. Excessive physical shock and vibration. Contact with organic materials, combustibles, strong reducing agents, strong oxidizers and humidity.		
10.5	Incompatible Substances:	Contact with organic materials, strong reducing agents, strong oxidizers, water and excessive humidity.		
		11. TOXICOLOGICAL INFORMATION		
11.1	Routes of Entry:	Inhalation: NO Absorption: NO Ingestion: YES		
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:		
		Manganese Dioxide: LD ₅₀ (oral, rat): > 3,478 mg/kg;		
		1,2-Dimethoxyethane: LD _{Lo} (oral, rat): 1,000 mg/kg, LC _{Lo} (inh-6h, rat): 63 g/m ³		
11.3	Acute Toxicity:	Propylene Carbonate: LD ₅₀ (oral, rat): 29,100 uL/kg; LD ₅₀ (dermal, rabbit):> 20 mL/kg; LC ₅₀ (inh, rat): > 5 g/m ³ See Section 4.4.		
11.4	Chronic Toxicity:	See Section 4.5.		
11.5	Suspected Carcinogen:	Carbon Black is listed as IARC Group 2B (Possibly carcinogenic to humans); CA65 (cancer).		
11.6	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 4.3		
11.8	Biological Exposure Indices:	NE NE		
11.9	Physician Recommendations:	Treat symptomatically.		
		12. ECOLOGICAL INFORMATION		
12.1	Environmental Stability:	There are no specific data available for this product.		
12.2	Effects on Plants & Animals:	There are no specific data available for this product.		
12.3	Effects on Aquatic Life:	There are no specific data available for this product.		
		13. DISPOSAL CONSIDERATIONS		
13.1	Waste Disposal:	Dispose of in accordance with federal, state, provincial and local regulations.		
13.2	Special Considerations:	NA		
		14. TRANSPORTATION INFORMATION		
The	hasic description (ID Nur	nber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional		
		e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.		
14.1	49 CFR (GND):	UN3091, LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, 9, II		
14.2	IATA (AIR):	UN3091, LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, 9, II See Section II of Packing Instruction 970		
14.3	IMDG (OCN):	UN3091, LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, 9, II See IMDG Code Special Provision 188		
14.4	TDGR (Canadian GND):	UN3091, LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, 9, II		
14.5	ADR/RID (EU):	UN3091, LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, 9, II		
14.6	SCT (MEXICO):	UN3091, BATERÍAS DE METAL LITIO CONTENIDAS EN EQUIPO, 9, II		
14.7	ADGR (AUS):	UN3091, LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, 9, II		
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		45 DECLII ATODY INFORMATION	
15.1	SARA Reporting	15. REGULATORY INFORMATION	
	Requirements:	This product does not contain any substances subject to SARA Title III, Section 313 reporting requirements.	
15.2	SARA Threshold Planning Quantity:	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 or are otherwise exempt.	
15.4	CERCLA Reportable Quantity (RQ):	NA NA	
15.5	Other Federal Requirements:	Manganese (and its compounds) is listed as a Hazardous Air Pollutant (HAP). Manganese (and its compounds) is listed as Toxic Pollutants under the Clean Water Act (CWA). None of the ingredients are listed as Priority Pollutants under the Clean Water Act (CWA). This product does not contain any Class 1 or Class 2 ozone depletors.	
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:	Lithium is found on the following state criteria lists: Florida Toxic Substances List (FL), Massachusetts Propylene Carbonate is found on the following state criteria lists: NJ and PA. 1,2-Dimethoxyethane is found on the following state criteria lists: FL, MA and PA. Graphite 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: 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). WARNING: This product contains a substance(s) known to the State of California to cause cancer, birth defects or other reproductive harm. California law requires this warning be given to customers in the State of California. NOTE: Perchlorate Material - special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate.	
15.8	Other Requirements:	The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC: Harmful (Xn). <u>Risk Phrases</u> (R): 65 – Harmful may cause lung damage if swallowed. <u>Safety Phrases</u> (S): 2-62 - Keep away from children. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible.	
		16. OTHER INFORMATION	
16.1	Other Information:	DANGER: IN CONTACT WITH WATER RELEASES FLAMMABLE GASES WHICH MAY IGNITE SPONTANEOUSLY. CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY BE HARMFUL IF SWALLOWED. Keep away from any possible contact with water, because of violent reaction and possible flash fire. Wash hands and exposed skin surfaces thoroughly with warm water and soap after handling. Wear protective gloves/eye protection/face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a Poison Control Center or doctor/physician. In case of fire: Use Lith-X powder, Class D fire extinguisher, Dry Lithium Chloride, or Graphite Powder for extinction. P402+P404 – Store in a dry place. Store in a closed container. KEEP OUT OF THE REACH OF CHILDREN.	
		WARNING: This product contains a substance(s) known to the State of California to cause cancer, birth defects or other reproductive harm	
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 & Harbor Freight Tools USA, Inc.'s 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:	Harbor Freight Tools USA, Inc. 26541 Agoura Road Calabasas, CA 91302 USA Tel: +1 (805) 388-1000 http://www.harborfreight.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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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	EXPOSURE LIMITS IN AIR:		
ACGIH	American Conference on Governmental Industrial Hygienists		
С	Ceiling Limit		
ES	Exposure Standard (Australia)		
IDLH	Immediately Dangerous to Life and Health		
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.

HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

I ENGONAL I NOTECTION NATINGS.				
Α				
В				
С				
D				
E				
F				





Splash Goggle







Protective Clothing & Full Suit

Dust Respirator







Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

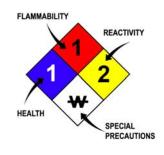
ML	Maximum Limit	
mg/m3	milligrams per cubic meter	
NA	Not Available	
ND	Not Determined	
NE	Not Established	
NF	Not Found	
NR	No Results	
ppm	parts per million	
SCBA	SCBA Self-Contained Breathing Apparatus	

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:		
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:

THE HAD TO THE OUT		
0	Minimal Hazard	
1	Slight Hazard	
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	
₩	Use No Water	
ох	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 _{Io} , LD _{Io} , & 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
TL _m	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 Transport Canada					
TC						
EPA	U.S. Environmental Protection Agency					
DSL	Canadian Domestic Substance List					
NOHSC	National Occupational Health and Safety Commission (Australia)					
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	WGK Wassergefährdungsklassen (German Water Hazard Class)					
HMIS-III	National Paint & Coatings Association Hazardous Materials Identification System					

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

WORKE ENGLISHED COO MIXTERIALE IDENTIFICATION (WINNES) CTOTEM.							
0	(3)	(②	(T)	®		R
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:

The state of the s		M	*			X	X
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

CLP/GHS (1272/2008/EC) PICTOGRAMS:

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