

Page 1 of 6 HFT-94799

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 S	COMPANY	IDENTIFICATION
	FRUDUGIA	X CUIVIPAINT	IDENTIFICATION

1.1 Product N	Name:	BATTERY FOR MAGNETIC SENSOR WIRELESS ALARMS SET OF 6
1.2 Chemical	l Name:	Alkaline Battery
1.3 Synonyms	is:	P/N 94799
1.4 Trade Nar	imes:	Bunker Hill Security
1.5 Product U	Jses & Restrictions:	Electric Storage Battery
1.6 Distributor	or's Name:	Harbor Freight Tools USA, Inc.
1.7 Distributor	or's Address:	26541 Agoura Road, Calabasas, CA 91302 USA
1.8 Emergence	cy Phone:	CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 676687)
1.9 Business I	Phone / Fax:	+1 (805) 388-1000

2. HAZARDS IDENTIFICATION

This product is classified as a HAZARDOUS SUBSTANCE, but not as DANGEROUS GOODS according to the classification criteria of [NOHSC: 1088 (2004)] and ADG Code (Australia).

WARNING! HARMFUL IF SWALLOWED. TOXIC TO AQUATIC LIFE WITH LONG LASTING

EFFECTS.

<u>Hazard Statements</u> (H): H302 – Harmful if swallowed. H411 – Toxic to aquatic life with long lasting effects.

<u>Precautionary Statements</u> (P): P264 – Wash hands and exposed skin areas with soap and warm water thoroughly after handling. P270 – Do not eat, drink or smoke while sing this product. P273 – Avoid release to the environment. P280 – Wear protective gloves/eye protection. P301+P312 – IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330 – Rinse mouth. P391 – Collect spillage. P501 – Dispose of contents/container to licenses treatment, storage and disposal facility (TSDF).

IF INGESTED: Call the NATIONAL BATTERY INGESTION HOTLINE at +1 (202) 625-3333



<u>IF INGESTED</u>: Call the NATIONAL BATTERY INGESTION HOTLINE at +1 (202) 625-3333 collect, day or night. In Canada, call +1 (416) 813-5900.

3. COMPOSITION & INGREDIENT INFORMATION

								EXPO	SURE L	IMITS II	N AIR (m	g/m³)	
					AC	GIH		NOHSC			OSHA		
					pp	m		ppm			ppm		
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
MANGANESE DIOXIDE	1313-13-9	OP0350000	215-202-6	20-60	(5)	NA	(5)	NF	NF	(5)	NA	NA	
MANGANESE DIOXIDE	Acute Tox. Or	al 4; Acute Tox. Ir	nh. 4; H302, H33	2									
ZINIO	7440-66-6	ZG8600000	231-175-3	15-40	NA	NA	NF	NF	NF	NA	NA	NA	
ZINC	Aquatic Acute	1; Aquatic Chroni	ic 1; H400, H410)									
DOTA COULINA LIVEROVIDE	1310-58-3	TT2100000	215-181-3	7-13	NA	NA	(2)	NF	NF	NA	NA	NA	
POTASSIUM HYDROXIDE	Acute Tox. Or	Acute Tox. Oral 4; Acute Tox. Inh. 4; H302, H332											
IDON (OTEFL)	7439-89-6	NO4565500	231-096-4	10-20	(5)	NA	NF	NF	NF	(10)	NA	NA	0.5 - NIOSH
IRON (STEEL)	Acute Tox. 4 3	; Skin Corr. 1A; H	302, H314										
ODADUUTE	7782-42-5	MD9659600	231-955-3	3-7	(2.0)	NA	(2.0)	NF	NF	(5)*	NA	NA	RESP FRAC
GRAPHITE				•									
OARRON RI ACK	1333-86-4	FF5800000	215-609-9	3-7	(3.5)	NA	(3.5)	NF	NF	(3.5)	NA	NA	
CARBON BLACK													
LEAD	7439-92-1	OF7525000	231-100-4	0-0.1	(0.05)	NA	NF	(0.15)	NF	NA	100	NA	
LEAD	Acute Tox. 4;	Acute Tox. 4; Rep	or. 1A; STOT RE	2; Aquatio	Acute	1; Aqua	tic Chro	onic 1; I	- 1302, ⊦	1332, H	1360, H3	73, H4	00, H410
O A DAMILIA	7440-43-9	NA	231-152-8	0-0.1	(0.01)	NA	NF	NF	NF	(0.1)	0.3	(9)	(0.02) RESP FRAC
CADMIUM	Acute Tox. 2;	Muta. 2; Carc. 1B	; Repr. 2; STOT	SE 1; Aq.	Acute 1	; Aq. C	hronic 1	; H330	, H341,	H350,	H361fd	H372	H400, H410
MEDOLIDY	7439-97-6	OV4550000	231-106-7	0-0.1	NA	NA	(0.003)	(0.025)	NA	NA	NA	(10)	
MERCURY	Repr. 1B; Acu	te Tox. 2 *; STOT	RE 1; Aquatic A	cute 1; Aq	uatic Cl	ronic 1	i; H360	D***, H	330, H3		1400, H	110	

			4. FIRST AID MEASURES
4.1	First Aid:	<u>Ingestion</u> :	Give large quantities of water, but do NOT induce vomiting. Never give anything by mouth to an unconscious person. Contact 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.
		<u>Eyes</u> :	If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minutes, 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:	If an open battery cell: 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.



Page 2 of 6 HFT-94799

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.1 SDS Revision Date: 7/25/2015 4. FIRST AID MEASURES - cont'd May cause severe irritation of mouth, throat, esophagus, and stomach. 42 Effects of Exposure: Acute ingestion of zinc Ingestion: compounds may cause abdominal pain, nausea, vomiting, diarrhea, and severe cramping. Eyes: Severe irritation, burns, cornea damage, blindness. Lead compounds may cause irritation. Skin: Severe irritation, burns, and ulceration if open battery cell comes into contact with skin. Inhalation: Inhalation of lead dust or fumes may cause irritation of upper respiratory tract and lungs. 4.3 Symptoms of Overexposure: Severe discomfort, nausea, vomiting and headache. Harmful if swallowed. May cause corrosion and Ingestion: permanent tissue destruction of the esophagus and digestive tract. May cause irreversible eye injury. Contact with eyes may cause severe irritation, and possible eye burns. Eyes: Severe irritation, redness, and watering. Severe skin irritation, red, itching skin, burns and ulceration, if open battery cell comes into contact with Skin: Inhalation: May cause cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood). Irritation may lead to chemical pneumonitis and pulmonary edema. Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain. muscle pain and increased white blood cell count. Causes respiratory tract irritation with possible burns. 4 4 Acute Health Effects: Hazardous exposure can occur only when product is heated above the melting point, oxidized or otherwise processed or damaged to create dust, vapor, or fume. Chronic Health Effects: 4.5 Chronic exposure may cause effects similar to those of acute exposure. 4.6 Target Organs: Eyes, Skin, Respiratory System, Central Nervous System (CNS) 4.7 **Medical Conditions** NA HEALTH 1 Aggravated by Exposure: **FLAMMABILITY** 0 0 PHYSICAL HAZARDS PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES Fire & Explosion Hazards: This material can burn but will not readily ignite. However, if involved in a fire, this product may 5.1 decompose at high temperatures to form toxic gases (e.g., CO, CO_X Hydrocarbons). Extinguishing Methods: 5.2 CO₂, Dry Chemical, Alcohol Foam. Use water spray to cool containers. 5.3 Firefighting Procedures: Use extinguishing media most appropriate for the surrounding fire. Do NOT get water inside containers. For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray. Cool containers with flooding quantities of water until well after fire is out. 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 MEASURES 6.1 Spills Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment, including protective gloves and eyewear. Plastic or rubber gloves, respirator, eye/face protection and chemical-resistant apron may be required for clean-up of large spills. Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible material such as vermiculite or sand to soak up the product and place into a container for later disposal. Large Spills: Keep incompatible materials 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. Collect in acidresistant container. Keep spills and cleaning runoffs out of drains, municipal sewers and open bodies of water. 7. HANDLING & STORAGE INFORMATION 7.1 Work & Hygiene Practices: Do not eat, drink or smoke when handling this product. Handle as to avoid puncturing container(s). Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct 7.2 Storage & Handling sunlight. Keep away from incompatible substances. Protect containers from physical damage. Store product in wellfilled, appropriate coated and tightly closed containers avoiding influence of oxygen/air, light and humidity. Store at a cool and constant temperature. This battery is not designed for recharging. Recharging can cause battery leakage or high pressure rupture, in some 7.3 Special Precautions: cases. Inadvertent charging can happen if a battery is installed backwards. Accidental short circuit for a few seconds will not seriously affect the battery. But prolonged short circuit will cause the battery to lose energy, and can cause the safety release vent to open. Sources of short circuit include jumbled batteries in bulk containers, metal jewelry, metal covered tables or metal belts used for assembly of batteries in devices.



Page 3 of 6 **HFT-94799**

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

SDS Revision: 1.1

SDS Revision Date: 7/25/2015

_	For a constitute	8. EXPOSURE CON			LNO		NOIL	<u> </u>			OTHER
1	Exposure Limits: ppm (mg/m ³)	0.1.2.1.0.1.1.1.2.(0)	ACG		50 TWA	NOHSC			OSHA		OTHER
	pp (g)	CHEMICAL NAME(S) MANGANESE DIOXIDE	(5)	STEL NA	(5)	ES-STEL NF	ES-PEAK NF	(5)	STEL NA	IDLH NA	
		GRAPHITE	(2.0)	NA	(2.0)	NF	NF	(5)*	NA	NA	RESP FRAC
		POTASSIUM HYDROXIDE	NA	NA	(2)	NF	NF	NA	NA	NA	TALOI TTUTO
		CARBON BLACK	(3.5)	NA	(3.5)	NF	NF	(3.5)	NA	NA	
		IRON (STEEL)	(5)	NA	NF	NF	NF	(10)	NA	NA	0.5 – NIOSH
		LEAD	(0.05)	NA	NF	(0.15)	NF	NA	100	NA	
		CADMIUM	(0.01)	NA	NF	NF	NF	(0.1)	0.3	(9)	(0.02) RESP FF
2	Ventilation & Engineering Controls:	MERCURY General mechanical (e.g., fans exhaust ventilation to effectivel product. Ensure appropriate de	y remov	e and p	prevent bu	uildup of v	apors or	mist gen	erated	from th	e handling of t
.3	Respiratory Protection:	instances where mist or vapors use only protection authorized	oduct. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). o special respiratory protection is required under typical circumstances of use or handling. In stances where mist or vapors of this product are generated, and respiratory protection is needed, see only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the anadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member to the state of Authorities.								
.4	Eye Protection:	Wear protective eyewear (e.g. product. Always use protective	Vear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this roduct. Always use protective eyewear when cleaning spills or leaks. Use equipment for eye rotection tested and approved under appropriate government standards such as NIOSH (US) or EN								
.5	Hand Protection:	Where contact is likely, impervious When handling large quantities of									
.6	Body Protection:	No apron required when handli resistant apron, clothing and bo be available.									
		9. PHYSICAL	& CI	-IFMI	CAL P	ROPF	RTIFS				
.1	Appearance:	Cylindrical battery									
2	Odor:	No apparent odor (sealed). Man	ganese (dioxide/:	zinc powd	er is black/	arev (brok	en)			
3	Odor Threshold:	NA	ganooo	2107110072	Line powa	or to blacto	groy (brok	011).			
4	pH:	NA									
5	Melting Point/Freezing Point:	NA									
6	Initial Boiling Point/Boiling	NA									
7	Range: Flashpoint:										
8	Upper/Lower Flammability	NA									
5	Limits:	NA									
9	Vapor Pressure:	NA									
10	Vapor Density:	NA									
11	Relative Density:	0.990-1.040 (at 25 °C)									
12	Solubility:	Sealed electric battery: Insoluble	•								
13	Partition Coefficient (log Pow):	NA									
14	Autoignition Temperature:	NA									
15	Decomposition Temperature:	NA									
16	Viscosity:	NA									
17	Other Information:	NA									
		40 CT	4 DII 1	TV 0	DEAC	TI\/IT\	7				
).1	Stability:	10. ST									
0.2	Hazardous Decomposition	Stable under normal conditions;	uristable	with ne	eat or cont	amination.					
	Products:	Oxides of carbon (CO, CO ₂).									
0.3	Hazardous Polymerization:	Will not occur.									
0.4	Conditions to Avoid:	Open flames, sparks, high heat,	incompa	itible su	bstances	and direct	sunlight.				
	Avoid extreme heat and ignition sources. Store away from oxidizers. Do not exceed heat, crush, disassemble, shor circuit or recharge.										



Page 4 of 6 **HFT-94799**

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.1 SDS Revision Date: 7/25/2015 11. TOXICOLOGICAL INFORMATION Inhalation: NO Ingestion: YES Routes of Entry: Absorption: 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: LD₅₀ (oral, rat): 3.478 mg/kg 11.3 Acute Toxicity: See Section 4.4 11.4 Chronic Toxicity: See Section 4.5 11.5 Suspected Carcinogen: Lead is listed as ACGIH Group A3 (Confirmed animal carcinogen with unknown relevance to human); IARC Group 2B (Possibly carcinogenic to humans); NTP13 Group 2 (Reasonably Anticipated to be a Human Carcinogen); CA65 Cadmium is listed as ACGIH Group A2 (Suspected human carcinogen); IARC Group 1 (Carcinogenic to humans); NTP13 Group 1 (Known human carcinogen); CA65 (cancer). Carbon Black is listed as IARC Group 2B (Possibly carcinogenic to humans); CA65 (cancer). Reproductive Toxicity: 11.6 This product contains Lead, which is suspected of causing 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 contains Lead, which is suspected of causing reproductive toxicity in humans. 11.7 Irritancy of Product: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 11.8 Biological Exposure Indices: NA Physician Recommendations: 11.9 Treat symptomatically and supportively. 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. Mercury: LC_{50} (Rainbow trout, 96h) = 0.16-0.90 mg/L; LC_{50} (Bluegill/Sunfish, 96h) = 0.16-0.90 mg/L; EC_{50} (Daphnia 12.3 Effects on Aquatic Life: magna, 48h) = 0.01 mg/L13. DISPOSAL CONSIDERATIONS Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations. Special Considerations: 13.2 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): **NOT REGULATED** NOT REGULATED 14.2 IATA (AIR): 14.3 IMDG (OCN): NOT REGULATED TDGR (Canadian GND): 14.4 **NOT REGULATED** 14.5 ADR/RID (EU): NOT REGULATED 14.6 SCT (MEXICO) **NOT REGULATED** 14.7 ADGR (AUS): **NOT REGULATED** 15. REGULATORY INFORMATION SARA Reporting 15.1 This product contains Lead, Mercury and Zinc, substances subject to SARA Title III, Section 313 reporting requirements. Requirements 15.2 SARA Threshold Planning There are no specific Threshold Planning Quantities for the components of this product. Quantity: 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 Zinc: 454 kg (1,000 lbs); Mercury: 0.454 kg (1.0 lbs) 15.5 Other Federal Requirements: Mercury, Lead and Cadmium are listed as Hazardous Air Pollutants (HAPs) under the Clean Air Act (CAA). Zinc, Cadmium and Mercury are listed as Priority Pollutants under the Clean Water Act (CWA). Zinc, Lead, Cadmium and Mercury are listed as Toxic Pollutants under the CWA. This product does not contain any Class 1 or Class 2 ozone 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the Safety Data Sheet 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)



Page 5 of 6 **HFT-94799**

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

SDS Revision: 1.1

SDS Revision Date: 7/25/2015

		15. REGULATORY INFO	DRMATION – cont'd					
15.7	State Regulatory Information:	Lead can be found on the following state criter	ia list: California Proposition 65 (CA65), Florida Toxic Substances List st (MA), Michigan Critical Substances List (MI), Minnesota Hazardous					
		Substances List (MN), New Jersey Right-to-Kno	ow List (NJ), New York Hazardous Substances List (NY), Pennsylvania					
		Right-to-Know List (PA), and Washington Permis	• • • • • • • • • • • • • • • • • • • •					
		Potassium Hydroxide is found on the following st Graphite is found on the following state criteria lis						
		Manganese Dioxide is found on the following state						
		Zinc is found on the following state criteria lists:						
		1 	ia lists: California Proposition 65 (CA65), MA, MN, NJ, and PA.					
			concentration of 1.0% or greater, are listed on any of the following state					
			elaware Air Quality Management List (DE), Florida Toxic Substances List					
			Massachusetts Hazardous Substances List (MA), Michigan Critical					
			ubstances List (MN), New Jersey Right-to-Know List (NJ), New York					
			Right-to-Know List (PA), Rhode Island Hazardous Substances List (RI),					
		WARNING: This product contains a substance (s	sconsin nazardous Substances List (Wr). Shown to the State of California to cause cancer, birth defects or other					
		reproductive harm. California law requires this w	arning be given to customers in the State of California.					
15.8	Other Requirements:	The primary component of this product is listed in						
			<u>Phrases</u> (R): 22-34-50/53 – Harmful if swallowed. may cause long-term adverse effects in the aquatic					
			39-45-60-61 – Keep locked up and out of reach of					
			nmediately with plenty of water and seek medical					
			s and eye/face protection. In case of accident or if					
		1 '	(show label where possible). This material and its					
		container must be disposed of as hazardous w special instructions/SDS.	aste. Avoid release to the environment. Refer to					
		16. OTHER INFO						
16.1	Other Information:		CIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.					
			and warm water thoroughly after handling. Do not eat, drink or smoke					
			rironment. Wear protective gloves/eye protection. IF SWALLOWED: Call					
		a POISON CENTER/doctor if you feel unwell. Ri	nse mouth. Collect spillage.					
		IF INGESTED: Call the NATIONAL BATTERY	INGESTION HOTLINE at +1 (202) 625-3333 collect, day or night. In					
		Canada, call +1 (416) 813-5900. KEEP OUT OF						
) known to the State of California to cause cancer, birth defects or other					
40.0	T 0 D-6-36	reproductive harm.						
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.						
16.3	Disclaimer:		OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other					
			pplicability to this product. To the best of ShipMate's & Harbor Freight contained herein is reliable and accurate as of this date; however,					
			ranteed and no warranties of any type, either expressed or implied, are					
			ates only to the specific product(s). If this product(s) is combined with					
			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	HARBOR FREIGHT TOOLS					
		Calabasas, CA 91302 USA Tel: +1 (805) 388-1000	Quality Tools at Ridiculously Low Prices					
		http://www.harborfreight.com/						
		ļ ·						
16.5	Prepared by:	ShipMate, Inc.						
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787						
16.5	Prepared by:	P.O. Box 787 Sisters, Oregon 97759-0787 USA						
16.5	Prepared by:	P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600						
16.5	Prepared by:	P.O. Box 787 Sisters, Oregon 97759-0787 USA						

Page 6 of 6 HFT-94799

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

SDS Revision Date: 7/25/2015

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
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:

Α		
В		
С		
D		
E		
F		





Cy Face Shield & Protective Eyewear





Protective Clothing & Full Suit

Dust Respirator





Mask Respirator

Full Face

Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

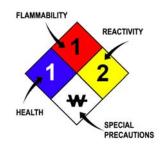
ML	Maximum Limit
mg/m3	milligrams per cubic meter
NA	Not Available
ND	Not Determined
NE	Not Established
NF	Not Found
NR	No Results
ppm	parts per million
SCBA	Self-Contained Breathing Apparatus

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILI	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:

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 TC, TC _o , LC _{Io} , & LC _o	Lowest dose (or concentration) to cause lethal or toxic effects				
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					
TC						
EPA						
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	Wassergefährdungsklassen (German Water Hazard Class)					
HMIS-III	HMIS-III National Paint & Coatings Association Hazardous Materials Identification System					

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

	TOTAL EXCE TREE ALEGO IN THE TAX TO THE TOTAL OF THE TENT								
0	(3)	<u>(2)</u>	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 Table		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