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

EFFECTS.

SDS Revision: 1.1

SDS Revision Date: 7/25/2015

1	PRODUCT	COMPANY	<b>IDENTIFICATION</b>
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	1. PRODUCT & COMPANY IDENTIFICATION				
1.1	Product Name:	BATTERY FOR 24 IN DIGITAL LASER LEVEL W/ANGLE FINDER			
1.2	Chemical Name:	Alkaline Battery			
1.3	Synonyms:	P/N 93884			
1.4	Trade Names:	Pittsburgh			
1.5	Product Uses & Restrictions:	Electric Storage Battery			
1.6	Distributor's Name:	Harbor Freight Tools USA, Inc.			
1.7	Distributor's Address:	26541 Agoura Road, Calabasas, CA 91302 USA			
1.8	Emergency Phone:	CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 676687)			
1.9	Business 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

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

Precautionary Statements (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

		EXPOSURE LIMITS IN AIR (mg/m³)											
					AC	GIH		NOHSC			OSHA		
					pp	om		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.	Inh. 4; H302, H3	32									
IDON (CTEEL)	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	; Skin Corr. 1A;	H302, H314										
ZINO	7440-66-6	ZG8600000	231-175-3	15-40	NA	NA	NF	NF	NF	NA	NA	NA	
ZINC	Aquatic Acute	1; Aquatic Chro	nic 1; H400, H41	0									
DOTA COULINA LIVERDOVIDE	1310-58-3	TT2100000	215-181-3	5-10	NA	NA	(2)	NF	NF	NA	NA	NA	
POTASSIUM HYDROXIDE	Acute Tox. Or	al 4; Acute Tox.	Inh. 4; H302, H3	32									
DD 4 CC	NA	NA	NA	3-7	(0.2)	NA	NF	NF	NF	(0.2)	NA	NA	
BRASS													
	7440-02-0	QR5950000	231-111-4	0.1-1	(1.5)	NA	(1)	NF	NA	NA	NA	(10)	
NICKEL	Carc. 2; STO	ΓRE 1; Skin Ser	ns. 1; Aquatic Chr	onic 3; H35	1, H372	2**, H3′	17, H41	2					
ZING OVIDE	1314-13-2	ZH4810000	215-222-5	0.1-1	NA	10	NF	10	NF	NA	NA	500	
ZINC OXIDE	Aquatic Acute	1; Aquatic Chro	nic 1; H400, H41	0									
DIOMETIL	7440-69-9	NA	231-177-4	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	
BISMUTH													
INIDIUM	7440-74-6	NL1050000	231-180-0	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	
INDIUM													
1540	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; Re	epr. 1A; STOT RE	2; Aquatio	Acute	1; Aqua	tic Chr	onic 1; I	1302, H	1332, H	360, H3	73, H4	00, H410
CARAULIA	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. 1	B; Repr. 2; STOT	SE 1; Aq.	Acute 1	; Aq. C	hronic 1	I; 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	ite Tox. 2 *: STO	T RE 1; Aquatic	Acute 1: Aa	uatic Cl	hronic 1	: H360	D***. H3	330. H3	72**. H	400. H	110	•



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HFT-93884 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 11 First Aid: Give large quantities of water, but do NOT induce vomiting. Never give anything by mouth to an Ingestion: 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. 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. If an open battery cell: Remove contaminated clothing and wash affected areas with soap and water. If Skin: discomfort persists and/or the skin reaction worsens, contact a physician immediately. Do not wear contaminated clothing until after it has been properly cleaned. Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial Inhalation: respiration. Seek immediate medical attention. 42 Effects of Exposure: May cause severe irritation of mouth, throat, esophagus, and stomach. 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: Ingestion: Severe discomfort, nausea, vomiting and headache. Harmful if swallowed. May cause corrosion and 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) 47 Medical Conditions HEALTH NA 1 Aggravated by Exposure: **FLAMMABILITY** 0 PHYSICAL HAZARDS 0 PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES

5.1	Fire & Explosion Hazards:	This material can burn but will not readily ignite. However, if involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO, CO <sub>x</sub> , Hydrocarbons).
5.2	Extinguishing Methods:	CO <sub>2</sub> , 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 acid-
		resistant container. Keep spills and cleaning runoffs out of drains, municipal sewers and open bodies of water.



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7.1	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).										
7.1	Work & Hygiene Practices: Storage & Handling:										m heat and direct
1.2	Storage & Hartuing.	Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Keep away from incompatible substances. Protect containers from physical damage. Store product in well-filled, appropriate coated and tightly closed containers avoiding influence of oxygen/air, light and humidity. Store at a cool and constant temperature.									
7.3	Special Precautions:	cases. Inadvertent charging ca will not seriously affect the bat safety release vent to open. S	This battery is not designed for recharging. Recharging can cause battery leakage or high pressure rupture, in some 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.								
		8. EXPOSURE CON	ITROL	S &	PERSO	DNAL I	PROTE	CTIO	N		
8.1	Exposure Limits:	1	ACC			NOHSC			OSHA		OTHER
	ppm (mg/m <sup>3</sup> )	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
		MANGANESE DIOXIDE	(5)	NA	(5)	NF	NF	(5)	NA	NA	
		GRAPHITE	(2.0)	NA	(2.0)	NF	NF	(5)*	NA	NA	RESP FRAC
		POTASSIUM HYDROXIDE	NA	NA	(2)	NF	NF	NA	NA	NA	
		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 FRAC
		MERCURY	NA	NA	(0.003)	(0.025)	NA	NA	NA	(10)	
		ZINC OXIDE	NA	10	NF	10	NF	NA	NA	500	
8.2	Ventilation & Engineering Controls:	General mechanical (e.g., fans exhaust ventilation to effective product. Ensure appropriate de	ly remov	e and	prevent bu	uildup of v	vapors or	mist gen	erated	from th	e handling of this
8.3	Respiratory Protection:	necessary, use only respirato §1910.134, or applicable U.S	No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its								
8.4	Eye Protection:	Wear protective eyewear (e.g product. Contact lenses pose	Wear protective eyewear (e.g., safety glasses with side-shield) at all times when 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								
8.5	Hand Protection:	Use gloves constructed of che frequent or prolonged contact is appropriate standards of Canada	mical-res s expecte	istant n	naterials s ecessary, r	uch as ne efer to U.S	oprene or				
8.6	Body Protection:	Avoid prolonged and/or repeat neoprene or Tyvek®) if splash include long-sleeves, apron, bo standards of Canada, the EU m	ed skin on some one and a	contact. praying addition	Use clear condition al facial pr	n and imp s are pre rotection. I	sent. Prote	ective clo	othing s	should	
		9. PHYSICA	I & CI	НЕМ	ICAL P	ROPE	RTIFS				
9.1	Appearance:	Pillar shaped battery. Mangane									
9.2	Odor:	No apparent odor (sealed)	220 310/110	. 5, 2,110	- 3		(3.3.3.1011).				
9.3	Odor Threshold:	NA									
9.4	pH:										
<u> </u>		NA NA									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling Range:	NA									
9.7	Flashpoint:	NA									
9.8	Upper/Lower Flammability Limits:	NA									
9.9	Vapor Pressure:	NA									
9.10	Vapor Density:	NA									
9.11	Relative Density:	NA					_			_	
9.12	Solubility:	NA									
9.13	Partition Coefficient (log Pow):	NA									
9.14	Autoignition Temperature:	NA									
9.15	Decomposition Temperature:	NA									
9.16	Viscosity:	NA									
9.10	Other Information:										
3.17	Outer information.	NA									



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.1 SDS Revision Date: 7/25/2015 10. STABILITY & REACTIVITY Stability: Stable under normal conditions; unstable with heat or contamination. 10.1 10.2 Hazardous Decomposition Oxides of carbon (CO, CO<sub>2</sub>). Products: 10.3 Hazardous Polymerization: Will not occur. 10.4 Conditions to Avoid: Open flames, sparks, high heat, incompatible substances and direct sunlight. 10.5 Incompatible Substances: Avoid extreme heat and ignition sources. Store away from oxidizers. Do not exceed heat, crush, disassemble, shortcircuit or recharge. 11. TOXICOLOGICAL INFORMATION Ingestion: YES Routes of Entry: Toxicity Data: 11.2 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, but are not presented in this document 11.3 Acute Toxicity: See Section 4.4 Chronic Toxicity 114 See Section 4.5 Suspected Carcinogen: 11.5 Nickel is listed as IARC Group 2B (Possibly carcinogenic to humans); NTP13 Group 1 (Known human carcinogen); CA65 (cancer). 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 (cancer). Cadmium is listed as ACGIH Group A2 (Suspected human carcinogen); IARC Group 1 (Carcinogenic to humans); NTP13 Group 1 (Known human carcinogen); 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 Treat symptomatically and supportively. 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: There are no specific data available for this product. Effects on Plants & Animals: 12.2 There are no specific data available for this product. Effects on Aquatic Life: 12.3 There are no specific data available for this product. 13. DISPOSAL CONSIDERATIONS Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations. 13.2 Special Considerations: NA 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): 14.1 **NOT REGULATED** IATA (AIR): NOT REGULATED 14 2 IMDG (OCN): NOT REGULATED 14.3 14.4 TDGR (Canadian GND): **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 This product contains Lead, Mercury and Zinc, substances subject to SARA Title III, Section 313 reporting requirements. 15.1 Requirements 15.2 SARA Threshold Planning There are no specific Threshold Planning Quantities for the components of this product. Quantity: TSCA Inventory Status: 15.3 The components of this product are listed on the TSCA Inventory or are otherwise exempt CERCLA Reportable Quantity 15.4 Zinc: 454 kg (1,000 lbs); Mercury: 0.454 kg (1.0 lbs); Nickel: 45.4 kg (100 lbs) (RQ):

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HARBOR FREIGHT TOOLS HFT-93884 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 INFORMATION – cont'd Other Federal Requirements: 15.5 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 depletors 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) 15.7 State Regulatory Information: Lead can be found on the following state criteria list: California Proposition 65 (CA65), 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), and Washington Permissible Exposures List (WA). Potassium Hydroxide is found on the following state criteria lists: FL, MA, MN, PA, and WA. Graphite is found on the following state criteria lists: FL, MA, MN, PA, and WA. Manganese Dioxide is found on the following state criteria lists: IL, MA, PA, and RI. Zinc is found on the following state criteria lists: IL, MA, NJ, and PA. Nickel is listed on the following state criteria lists: fl, MA, MI, MN, NJ, PA, and WA. Zinc Oxide is found on the following state criteria lists: FL, MA, MN, PA and WA. Indium 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), Illinois Hazardous Substances List (IL), 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), Rhode Island Hazardous Substances List (RI), 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. Other Requirements: 15.8 The primary component of this product is listed in Annex I of EU Directive 67/548/EEC: Corrosive (C); Environmental Danger (N). Risk Phrases (R): 22-34-50/53 - Harmful if swallowed. Causes burns. Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment. Safety Phrases (S): 1/2-26-36/37/39-45-60-61 - Keep locked up and out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing/ gloves and eye/face protection. In case of accident or if you feel unwell seek medical advice immediately (show label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/SDS. 16. OTHER INFORMATION Other Information: 16.1 WARNING! HARMFUL IF SWALLOWED. TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. Wash hands and exposed skin areas with soap and warm water thoroughly after handling. Do not eat, drink or smoke while sing this product. Avoid release to the environment. Wear protective gloves/eye protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse 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 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. Terms & Definitions: 16.2 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 HARBOR FREIGHT TOOLS 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

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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	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		





asses Splash Gogo

















Synthetic Apron

Full Face Respirator



## OTHER STANDARD ABBREVIATIONS:

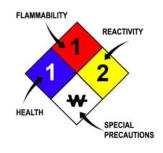
ML	Maximum Limit
mg/m3	milligrams per cubic meter
NA	Not Available
ND	Not Determined
NE	Not Established
NF	Not Found
NR	No Results
ppm	parts per million
SCBA	Self-Contained Breathing Apparatus

## NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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 <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s				
LC <sub>50</sub>	Lethal concentration (gases) which kills 50% of the exposed animal				
ppm	Concentration expressed in parts of material per million parts				
TD <sub>io</sub>	Lowest dose to cause a symptom				
TCLo	Lowest concentration to cause a symptom				
TD <sub>Io</sub> , LD <sub>Io</sub> , & LD <sub>o</sub> or	Lowest dose (or concentration) to cause lethal or toxic effects				
TC, TC <sub>o</sub> , LC <sub>lo</sub> , & LC <sub>o</sub>					
IARC	International Agency for Research on Cancer				
NTP	National Toxicology Program				
RTECS	Registry of Toxic Effects of Chemical Substances				
BCF	Bioconcentration Factor				
TL <sub>m</sub>	Median threshold limit				
log K <sub>ow</sub> or log K <sub>oc</sub>	Coefficient of Oil/Water Distribution				

#### REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System				
DOT	U.S. Department of Transportation				
TC					
EPA					
DSL	DSL Canadian Domestic Substance List				
NOHSC	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:

WORKE ENGLISHED WAS INVESTIGATION (WITHING) OF OTELLIS							
0	<b>(3)</b>	<b>(</b>	<b>②</b>	<b>(T)</b>	<b>®</b>		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:

		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:

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