HARBOR FREIGHT TOOLS

SAFETY DATA SHEET

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HFT-94661 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 5/13/2015 1. PRODUCT & COMPANY IDENTIFICATION 11 Product Name: BATTERY FOR SOLAR MOLE CHASER 1.2 Chemical Name: Nickel-Cadmium Battery 1.3 Synonyms P/N 94661 14 Trade Names Greenwood 15 Product Uses & Restrictions: Electric Storage Battery 1.6 Distributor's Name Harbor Freight Tools USA, Inc. 17 Distributor's Address 26541 Agoura Road, Calabasas, CA 91302 USA CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 676687) 1.8 Emergency Phone: Business Phone / Fax: 1.9 +1 (805) 388-1000 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). NOTE: Under normal conditions of battery use, internal components will not present a health hazard. The following information is provided for an exposure that may occur during container breakage or under extreme heat conditions such as fire. DANGER! HARMFUL IF SWALLOWED. CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. MAY CAUSE CANCER. VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. Classification: Carc. 1; Acute Tox. 4; Skin Irrit. 2; Skin Sens. 1; Aq. Chronic 1 Hazard Statements (H): H302 - Harmful if swallowed. H315 - Causes skin irritation. H317 - Mav cause an allergic skin reaction. H350 - May cause cancer. H410 - Very toxic to aquatic life with long lasting effects. Precautionary Statements (P): P261 - Avoid breathing dust/fume/gas/mist/vapors. 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. P272 - Contaminated work clothing should not be allowed out of the workplace. 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. P302+P352 - IF ON SKIN: Wash with plenty of warm water and soap. P332+P313 - If skin irritation occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. 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 COLLECT, DAY OR NIGHT. IN CANADA, CALL +1 (416) 813-5900. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA ppm ppm ppm FS-ES-ESтιν STEL PFI STEL IDI H RTECS No. EINECS No OTHER CHEMICAL NAME(S) CAS No. TWA STEL PEAK % 12054-48-7 QR7040000 235-008-5 15-40 (1) NA NF NF NF NA NA NA (0.15) NIOSH NICKEL HYDROXIDE Acute Tox. 4; Skin Irrit. 2; Resp. Sens. 1; Skin Sens. 1; Muta. 2; Carc. 1A; Repr. 1B; STOT RE 1; Aq. Acute 1; Aq. Chronic 1; H302+H332, H315, H317, H334, H341, H350, H360, H372, H410 15-40 (0.002) NA NF (0.01) NF NA NA 21041-95-2 NA 244-168-5 9 CADMIUM HYDROXIDE Acute Tox. 2; Muta. 2; Carc. 1B; Repr. 2; STOT RE 1; Aq. Acute 1; Aq. Chronic 1; H301, H330, H341, H350, H361, H372, H410 (5) NA NF NF NF (10) NA NA 0.5-NIOSH 7439-89-6 NO4565500 231-096-4 10-20 **IRON (STEEL)** Acute Tox. 4; Skin Corr. 1A; H302, H314 (0.02) NA (0.02) NF NF NA NA 1307-96-6 NA 215-154-6 ≤ 10 NA COBALT OXIDE Acute Tox. 4; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H317, H400, H410 1310-58-3 TT2100000 NA NA NA 215-181-3 1-5 NA NA (2) NF NF POTASSIUM HYDROXIDE

1-3

0.1-1

215-185-5

215-183-4

2

NA

2 NF NF

NA NA NF NF NF NA NA NA

2

NA

10

Acute Tox. Oral 4; Acute Tox. Inh. 4; H302, H332

WB4900000

1310-73-2

Skin Corr. 1A; H314 1310-65-2 OJ6307070

Acute Tox. 4, Skin Corr. 1B

SODIUM HYDROXIDE

LITHIUM HYDROXIDE

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	ared to OSHA, ACC, ANSI, N	IOHSC, WHMIS	, 2001/58 & 1272/2008/EC Standards	SDS Revision: 1.0	SDS Revision I	Date: 5/13/201	5			
		•	4. FIRST AID ME							
4.1	First Aid:	unconscious person. Contact the nearest Poison Control Center or local emergency telephone assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneo victim's head lowered (forward) to reduce the risk of aspiration.								
		<u>Eyes</u> :	holding eyelid(s) open to ensure com use, consult a physician or emergence	plete flushing. If the eyes or y room immediately.	or face become swoll	en during or	following			
		<u>Skin</u> :	If an open battery cell: Remove cond discomfort persists and/or the skin contaminated clothing until after it has	reaction worsens, contac						
		Inhalation:	Remove victim to fresh air at once respiration. Seek immediate medical	e. Under extreme conditi	ons, if breathing sto	ops, perform	artificia			
4.2	Effects of Exposure:	Ingestion:	May cause severe irritation of mou cadmium compounds may cause abo	ominal pain, nausea, vomit						
		<u>Eyes</u> :	Severe irritation, burns, cornea dama		into contact with akir	^				
		<u>Skin</u> : Inhalation:	Severe irritation, burns, and ulceratio Inhalation of metal dust or fumes may	, ,						
4.3	Symptoms of Overexposure:	Ingestion:	Severe discomfort, nausea, vomitin permanent tissue destruction of the e	g and headache. Harmful	if swallowed. May	0	sion an			
		<u>Eyes</u> :	May cause irreversible eye injury. Co Severe irritation, redness, and wateri	ng.		•				
		<u>Skin</u> :	skin.							
		Inhalation:	May cause cyanosis (bluish discolora lead to chemical pneumonitis and p which is characterized by flu-like syn muscle pain and increased white bloo	ulmonary edema. Inhalatio	n of fumes may cau fever, chills, cough, v	ise metal fui weakness, cl	me feve nest pair			
	Acute Health Effects:									
1.4		damaged to respiratory t chemical bu compounds	exposure can occur only when product create dust, vapor, or fume. Material is tract, eyes, and skin. Swallowing a bat urns or mouth, esophagus, and gast which can cause excessive salivatio aintness, unconsciousness, and possible	is heated above the melting extremely destructive to tis tery can be harmful. Conte rointestinal tract. Conten n, choking, nausea, persis	g point, oxidized or ot ssue of the mucous n ents of an open batte ts include toxic cac	therwise proc nembranes a ery can caus dmium and	cessed o and uppe e seriou cadmiu			
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.5	Chronic Health Effects: Target Organs:	damaged to respiratory t chemical bu compounds dizziness, fa Chronic exp repeated ex Skin, Respir	create dust, vapor, or fume. Material is tract, eyes, and skin. Swallowing a bat urns or mouth, esophagus, and gast which can cause excessive salivatio aintness, unconsciousness, and possible osure may cause effects similar to thos posure.	is heated above the melting extremely destructive to tis tery can be harmful. Conter rointestinal tract. Conten n, choking, nausea, persis e liver and kidney injury. e of acute exposure. Cause (CNS) HEA	g point, oxidized or ot ssue of the mucous n ents of an open batte ts include toxic cac stent vomiting, diarri es damage to organs	therwise proo nembranes a ery can caus dmium and hea, abdomi through pro	cessed c and uppe ie seriou cadmiur inal pair longed c 3 0			
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5 6 7	Chronic Health Effects: Target Organs: Medical Conditions Aggravated by Exposure:	damaged to respiratory t chemical bu compounds dizziness, fa Chronic exp repeated ex Skin, Respir NA	create dust, vapor, or fume. Material is tract, eyes, and skin. Swallowing a bat urns or mouth, esophagus, and gast which can cause excessive salivatio <u>aintness, unconsciousness, and possible</u> oosure may cause effects similar to thos posure. Tatory System, Central Nervous System 5. FIREFIGHTING N al can burn but will not readily ignite. at high temperatures to form toxic gas is above 212 °F can cause venting of the electrolyte. Potential for exp	is heated above the melting sextremely destructive to tis tery can be harmful. Conter rointestinal tract. Conten n, choking, nausea, persis e liver and kidney injury. e of acute exposure. Cause (CNS) HEA (CNS) HEA FLA PHY PRO EYES MEASURES However, if involved in a ses (e.g., CO, CO _X Hydroc he liquid electrolyte. Interr	g point, oxidized or ot ssue of the mucous n ents of an open batte ts include toxic cac stent vomiting, diarri- es damage to organs LTH MMABILITY SICAL HAZARDS DTECTIVE EQUIPN S SKIN fire, this product ma arbons). Exposure to nal shorting could als	therwise proo nembranes a ery can caus dmium and hea, abdomi through pro	cessed c and uppe e seriou cadmiur inal pair longed c 3 0 0 0			
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SDS Revision: 1.0 SDS Re

SDS Revision Date: 5/13/2015

		6. ACCIDE				WLAS	JKES				
6.1 Spills: Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriat Equipment, including protective gloves and eyewear. Plastic or rubber gloves, respirator, eye chemical-resistant apron may be required for clean-up of large spills. <u>Small Spills</u> : Wear appropriate protective equipment including gloves and protective eyewear. U							eye/fa . Use	ce protection and a non-combustible			
		material such as vermiculite or sand to soak up the product and place into a container for later disposal. <u>Large Spills</u> : Keep incompatible materials away from spill. Stay upwind and away from spill or release. Isolate									
		immediate hazard area and ker risk. Wear appropriate protect	ep unauth	norized p	personnel	out of area	a. Stop sp	ill or rele	ase if it	can be	done with minima
		resistant container.	cuve equi	ipinent	including	respiratory	protectio	1 43 00	lations	wanan	
		7. HANDLIN	C & ST								
7.1	Work & Hygiene Practices:	Do not eat, drink or smoke whe							ontaine	r(s)	
7.2	Storage & Handling:	Use and store in a cool, dry, sunlight. Keep away from in	well-venti	ilated lo	cation (e.	g., local e	xhaust ver	ntilation,	fans) av	way fro	
7.3	Special Precautions:	encapsulate nickel cadmium b high pressure rupture. Accidental short circuit for a fe									<u> </u>
 battery to lose energy, and can cause the safety release vent to open. Prolonged short-circuits will cause high temperatures which can cause skin burns. Sources of short circuits include jumbled batteries in bulk containers, r jewelry, and metal covered tables or metal belts used for assembly of batteries into devices. Do not open the battery. The negative electrode material may be pyrophoric. Should an individual cell from a bat become disassembled, spontaneous combustion of the negative electrode is possible. This is much more like happen of the electrode is removed from its metal container. Here can be a delay between exposure to air spontaneous combustion. If soldering or welding to the battery is required, use of tabbed batteries is recommended. If this cannot be consult the manufacturer for proper precautions to prevent seal damage or short-circuit. WARNING. CHARGE ONLY WITH SPECIFIED CHARGERS ACCORDING TO DEVICE MANUFACTURE INSTRUCTIONS. DO NOT OPEN BATTERY, DISPOSE OF IN FIRE OR SHORT-CIRCUIT – MAY IGN EXPLODE, LEAK OR GET HOT CAUSING PERSONAL INJURY. 								cell from a batter ich more likely to posure to air and			
		consult the manufacturer for pr WARNING. CHARGE ONLY INSTRUCTIONS. DO NOT EXPLODE, LEAK OR GET HO	OPER PRO	SPECIF SATTEF	to preven FIED CHA RY, DISP RSONAL	ARGERS OSE OF INJURY.	ACCORD IN FIRE	ING TO OR SH	DEVIO ORT-CI		
3.1	Exposure Limits:	consult the manufacturer for pr WARNING. CHARGE ONLY INSTRUCTIONS. DO NOT	OPER PROC WITH OPEN E DT CAUS	SPECIF SATTER ING PE	to preven FIED CHA RY, DISP RSONAL	ARGERS OSE OF INJURY.	ACCORD IN FIRE	ING TO OR SH	DEVIO ORT-CI		- MAY IGNITE
3.1	Exposure Limits: ppm (mg/m ³)	consult the manufacturer for pr WARNING. CHARGE ONLY INSTRUCTIONS. DO NOT EXPLODE, LEAK OR GET HO	OPER PRO	SPECIF SATTER ING PE	to preven FIED CHA RY, DISP RSONAL	ARGERS OSE OF INJURY.	ACCORD IN FIRE	ING TO OR SH	DEVIO ORT-CI		
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.1		consult the manufacturer for pr WARNING. CHARGE ONLY INSTRUCTIONS. DO NOT EXPLODE, LEAK OR GET HO 8. EXPOSURE CON CHEMICAL NAME(S) IRON (STEEL) CADMIUM OXIDE		SPECIF BATTER ING PE	to preven FIED CH/ RY, DISP RSONAL PERSC ES-TWA NF NF	ARGERS OSE OF INJURY. DNAL I NOHSC ES-STEL NF (0.01)	ACCORD IN FIRE PROTE ES-PEAK NF NF	CTIO	DEVIG ORT-CI N OSHA STEL NA NA	IDLH	- MAY IGNITE OTHER 0.5 - NIOSH
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HARBOR FREIGHT TOOLS

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SDS Revision: 1.0

SDS Revision Date: 5/13/2015

9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Appearance: Black cylindrical battery 92 Odor Odorless 9.3 Odor Threshold: NA 9.4 pH: NA 9.5 Melting Point/Freezing Point: NA Initial Boiling Point/Boiling 9.6 NA Range: 9.7 Flashpoint: NA 9.8 Upper/Lower Flammability NA Limits 99 Vapor Pressure: NA 9.10 Vapor Density: NA Relative Density: 9.11 NA Solubility: 9.12 NA 9.13 Partition Coefficient (log Pow): NA 9.14 Autoignition Temperature NA 9.15 Decomposition Temperature: NA 9.16 Viscositv NA 9.17 Other Information: NA 10. STABILITY & REACTIVITY 10.1 Stability: Stable under normal conditions; unstable with heat or contamination 10.2 Hazardous Decomposition Oxides of carbon (CO, CO₂). Thermal degradation may produce hazardous fumes of cadmium and nickel, hydrogen Products gas, caustic vapors of potassium hydroxide and other hazardous by-products. 10.3 Hazardous Polymerization: Will not occur 10.4 Conditions to Avoid: Open flames, sparks, high heat, incompatible substances and direct sunlight, and incompatible substances. 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** Inhalation: NO Absorption: YES Ingestion: YES 11.1 Routes of Entry: This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is 11.2 Toxicity Data: available for some of the components of the product and is presented below: Cadmium Oxide: LD₅₀ (oral, rat): 63-259 mg/kg; Nickel Hydroxide: LD₅₀ (oral, rat): 1,540 mg/kg; Cobalt Oxide: LD₅₀ (oral, rat): 202 mg/kg; Potassium Hydroxide: LD₅₀ (oral, rat): 273 mg/kg; Lithium Hydroxide: LD₅₀ (oral, rat): 210 mg/kg 11.3 Acute Toxicity: See section 4.4 Chronic Toxicity: 11.4 See section 4.5 11.5 Suspected Carcinogen Nickel Hydroxide is listed as IARC Group 1 (Carcinogenic to humans); NTP13 Group 1 (Known human carcinogen). Cadmium Oxide is listed as IARC Group 1 (Carcinogenic to humans); NTP13 Group 1 (Known human carcinogen). 11.6 Reproductive Toxicity: Cadmium Oxide is reported to have cause reproductive effects in humans. Mutagenicity This product has been reported to produce mutagenic effects in animals (mouse) Embryotoxicity This product is not reported to produce embryotoxic effects in humans. Teratogenicity Cadmium Oxide is reported to have cause reproductive effects in animals Reproductive Toxicity: Cadmium Oxide is reported to have cause reproductive effects 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 11.9 Physician Recommendations: Treat symptomatically and supportively. 12. ECOLOGICAL INFORMATION 12 1 Environmental Stability There are no specific data available for this product. 122 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 Special Considerations: 13.2 NA

HARBOR FREIGHT TOOLS Quality Tools at Ridiculously Low Prices

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		14. TRANSPORTATION INFORMATION	
		nber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.	. Additional
14.1	49 CFR (GND):	NOT REGULATED	
14.2	IATA (AIR):	NOT REGULATED	
14.3	IMDG (OCN):	NOT REGULATED	
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	
45.4	CADA Desertion	15. REGULATORY INFORMATION	
15.1	SARA Reporting Requirements:	This product contains <u>Nickel Hydroxide</u> , <u>Nickel</u> and <u>Sodium Hydroxide</u> , which are subject to the reporting re of Section 313 of SARA Title III and 40 CFR Part 373.	equirements
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):	<u>Nickel</u> : 45.4 kg (100 lbs)	
15.5	Other Federal Requirements:	<u>Cadmium</u> (and its compounds), <u>Cobalt</u> (and its compounds) and <u>Nickel</u> (and its compounds) are listed as Ha Pollutants (HAPs) under the Clean Air Act (CAA). <u>Cadmium</u> (and its compounds), <u>Cobalt</u> (and its compounds), <u>Nickel</u> (and its compounds) listed as Toxic Pollutants under the Clean Water Act (CWA). <u>Cadmium</u> (and its and <u>Nickel</u> (and its compounds) are listed as Priority Pollutants under the CWA. This product does not conta 1 or Class 2 ozone depletors.	compounds) and
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 D1, D2B (Toxic, Other Toxic Effects)	\mathbf{T}
15.7	State Regulatory Information:	Cadmium Oxide can be found on the following state criteria list: Florida Toxic Substances List (FL), Ma Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Kno Pennsylvania Right-to-Know List (PA), and Washington Permissible Exposures List (WA). <u>Nickel Hydroxide</u> is listed on the following state criteria lists: California Proposition 65 (CA65), MA, NJ, and PA <u>Potassium Hydroxide</u> is found on the following state criteria lists: FL, MA, MN, PA, and WA. <u>Sodium Hydroxide</u> is found on the following state criteria lists: FL, MA, MN, NJ, PA, and WA. <u>Sodium Hydroxide</u> is found on the following state criteria lists: FL, MA, MN, NJ, PA, and WA. No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the fo criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Sub (FL), Illinois Hazardous Substances List (IL), Massachusetts Hazardous Substances List (MA), Michi Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ) Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Rhode Island Hazardous Substance 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 defere productive harm. California law requires this warning be given to customers in the State of California.	w List (NJ), A. Ilowing state stances List gan Critical , New York ces List (RI),
15.8	Other Requirements:	The primary component of this product is listed in Annex I of EU Directive 67/548/EEC: <u>Cadmium Oxide</u> : Toxic, Harmful (T+, N). <u>Risk Phrases</u> (R): R26-45-48/23/25-62-63-68-50/53 – Very toxic by inhalation. May cause cancer. Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Possible risk of harm to the unborn child. Very toxic to aquatic organisms - may cause long-term adverse effects in the aquatic environment. <u>Safety Phrases</u> (S): S45-53-60-61 – In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). Avoid exposure - obtain special instructions before use. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheet. <u>Nickel Hydroxide</u> : Harmful (Xn). <u>Risk Phrases</u> (R): 40-43 - Limited evidence of carcinogenic effect. May cause sensitization by skin contact. <u>Safety Phases</u> (S): 36-60-61 Wear suitable protective clothing. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions. <u>Potassium Hydroxide</u> : Corrosive (C). <u>Risk Phrases</u> (R): 22-43 - Harmful if swallowed. Causes severe burns. <u>Safety Phases</u> (S): 26-36/37/39-45 - 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 the label where possible).	

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		16. OTHER INFORMATION					
16.1	16.1 Other Information: DANGER! HARMFUL IF SWALLOWED. CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SI REACTION. MAY CAUSE CANCER. VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. Avoid breathing dust/fume/gas/mist/vapors. Wash hands and exposed skin areas with soap and warm water thoroug after handling. Do not eat, drink or smoke while sing this product. Contaminated work clothing should not be allowed of the workplace. Avoid release to the environment. Wear protective gloves/eye protection. IF SWALLOWED: Ca POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of warm water and soap skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Col spillage. 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 COLLECT, DAY 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 ot 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	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 M	EASURES:				

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	HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:								
0	Minimal Hazard		HEALTH						
1	Slight Hazard		FLAMMABILITY						
2	Moderate Hazard		PHYSICAL HAZARDS						
3	Severe Hazard		PERSONAL PROTECTION						
4	Extreme Hazard								

PERSONAL PROTECTION RATINGS:

Α			G			8	
В			н			品	
С			I				
D	B		J	0		Î	
Е			к	9		Ŕ	
F			X			ervisor o direction	
Sa	fety Glasse	es Splash Goggles		e Shield 8 tive Eyew		Glove) es
	CS Boots	Synthetic Apron		tive Cloth	ing	Dust Res	pirator
						Ť	
Full F	ace Respi	rator Dust & Vapor Half- Mask Respirator		ull Face spirator	А	irline Hoo or SC	
отн	ER STAN	DARD ABBREVIATIONS	S:				
	ML	Maximum Limit					
	mg/m3	milligrams per cubic meter					
		NU 1 A 11 11					

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 FI	RE 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

0	Minimal Haz	ard FLAMMABILITY			
1	Slight Haza				
2	Moderate H				
3	Severe Haz				
4	Extreme Ha				
ACD	Acidic				
ALK	Alkaline				
COR	Corrosive				
₩	Use No Wat	er HEALTH			
ох	Oxidizer	SPECIAL			
TREFOIL	Radioactive	PRECAUTION			
OXICOLO	GICAL INF	ORMATION:			
	LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animal			
		s			
	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			
	D _{io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects			
TC, TC₀,	LC _{lo} , & LC _o				
	IARC	International Agency for Research on Cancer			
	NTP	National Toxicology Program			
	RTECS	Registry of Toxic Effects of Chemical Substances			
	BCF	Bioconcentration Factor			
	TLm	Median threshold limit			
• •	v or log K _{oc}				
	RY INFOR				
WHMIS		/orkplace Hazardous Material Information System			
DOT		ment of Transportation			
TC	Transport C				
EPA		nmental Protection Agency			
DSL		omestic Substance List			
NOHSC		cupational Health and Safety Commission (Australia)			
NDSL		on-Domestic Substance List			
PSL		riority Substances List			
TSCA		Substance Control Act			
EU		nion (European Union Directive 67/548/EEC)			
WGK	vvassergetä	hrdungsklassen (German Water Hazard Class)			

HMIS-III National Paint & Coatings Association Hazardous Materials Identification System

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

\bigcirc	۲	٨		(†	۲		Ĩ
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:

		N		*	•	×	×
С	E	F	N	0	т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

	>		\Diamond					
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environ- ment