HARBOR FREIGHT TOOLS

SAFETY DATA SHEET

SDS Revision: 1.0

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

Page 1 of 6 **HFT-68383**

SDS Revision Date: 4/30/2015

.1 Product Name:	9V HEAV		DATTED	v									
.2 Chemical Name:			DATIER	I									
	Zinc Chloride	Battery											
	P/N 68383												
4 Trade Names:		Thunderbolt Magnum											
5 Product Uses & Restrictions:	~	Electric Storage Battery											
6 Distributor's Name:	Ŭ	Harbor Freight Tools USA, Inc.											
7 Distributor's Address:	26541 Agoura Road, Calabasas, CA 91302 USA CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 676687)												
8 Emergency Phone:			527-3887	/ +1 (800)) 424-	-930) (CC	N 67	6687)			
1.9 Business Phone / Fax: +1 (805) 388-1000													
		2. H	AZARDS	IDENT	IFICA		ON						
1 Hazard Identification:	This product i								nds ac	cordin	na to t	he	
	classification of								00 00	oor an	.g .o .		•
	WARNING!								TH LO	NG L	ASTIN	IG	
	EFFECTS.												
	Hazard Staten	<u>ments</u> (H): H30	02 – Harmful i	f swallowe	d. H411	1 – To	xic to a	aquatio	c life w	ith Ion	ng lasti	ng	\mathbf{X}
	effects.												
	Precautionary												Y
	water thorough												
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).									XK \				
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	aciiity (13DF)).											
	IE INGESTER				NGEST			NE at	+1 (3	202) 6	25-33	22	
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	CAS No. 7440-66-6 Aquatic Acute	2: Call the N or night. In Ca DMPOSIT RTECS No. ZG8600000 1; Aquatic Chro	EINECS No. 231-175-3 nic 1; H400, H4	GREDI % 15-40	-5900. ENT ACG ppr TLV NA 1	INF n stel NA	ORN ES- TWA NF	AAT EXPOSINO NOHSC ppm ES- STEL NF	ION SURE LI ES- PEAK NF	IMITS IN PEL NA	N AIR (m OSHA ppm STEL NA	g/m ³)	OTHER
IC	CAS No. 7440-66-6 Aquatic Acute 1313-13-9	2: Call the N or night. In Ca DMPOSIT MPOSIT ZG8600000 1; Aquatic Chro OP0350000	EINECS No. 231-175-3 nic 1; H400, H4 215-202-6	GREDI % 15-40 15-40	ENT ACG	INF iiH n STEL	ORN ES- TWA	PPM ES- STEL	ES- PEAK		N AIR (m OSHA ppm STEL	g/m ³)	OTHER
IC	CAS No. CAS No. 7440-66-6 Aquatic Acute 1313-13-9 Acute Tox. Ora	2: Call the N or night. In Ca DMPOSIT DMPOSIT Call Contemporation Contemporatio Contemporation C	EINECS No. 231-175-3 nic 1; H400, H4 215-202-6 Inh. 4; H302, H3	GREDI % 15-40 10 15-40 332	ENT ACG ppr TLV NA (1 (5)	INF n STEL NA	ORN ES- TWA NF (5)	AAT EXPOS NOHSC ppm ES- STEL NF NF	ION SURE LI ES- PEAK NF	PEL NA (5)	N AIR (m OSHA ppm STEL NA NA	g/m ³) IDLH NA	OTHER
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NC ANGANESE DIOXIDE ATER RAPHITE	Collect, day o 3. CC CAS No. 7440-66-6 Aquatic Acute 1313-13-9 Acute Tox. Ora 7732-18-5	2: Call the N r night. In Ca DMPOSIT RTECS No. ZG8600000 1; Aquatic Chro OP0350000 al 4; Acute Tox. ZC0110000	EINECS No. 231-175-3 nic 1; H400, H4: 215-202-6 Inh. 4; H302, H3 231-791-2	6REDI % 15-40 10 15-40 332 10-20	-5900. ENT ACG ppr TLV NA 1 (5) NA	INF n STEL NA NA	ORN ES- TWA NF (5)	NF	ION SURE LI ES- PEAK NF NF	PEL NA (5) NA	N AIR (m OSHA ppm STEL NA NA	ig/m ³) IDLH NA NA	
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NC ANGANESE DIOXIDE ATER RAPHITE	Collect, day o 3. CC CAS No. 7440-66-6 Aquatic Acute 1313-13-9 Acute Tox. Ore 7732-18-5 7782-42-5 7646-85-7	2: Call the N r night. In Ca DMPOSIT DMPOSIT ZG8600000 1; Aquatic Chro OP0350000 al 4; Acute Tox. ZC0110000 MD9659600 ZH1400000	EINECS No. 231-175-3 nic 1; H400, H4' 215-202-6 Inh. 4; H302, H3 231-791-2 231-955-3 231-592-0	(416) 813 GREDI % 15-40 10 15-40 332 10-20 5-10	-5900. ENT ACG ppr TLV NA 1 (5) NA (2.0) (1)	INF iiH n STEL NA NA NA NA	ORN ES- TWA NF (5) NF (2.0) (1)	AT EXPOSING NOHSC PPM ES- STEL NF NF	SURE LI ES- PEAK NF NF NF NF	PEL NA (5) NA (5)*	AIR (m OSHA ppm STEL NA NA	g/m ³)	RESP FRAC
NGANESE DIOXIDE	CAS No. CAS No. 7440-66-6 Aquatic Acute 1313-13-9 Acute Tox. Ora 7732-18-5 7782-42-5 7782-42-5 7646-85-7 Acute Tox. 4 *; 1333-86-4	2: Call the N or night. In Ca DMPOSIT Composition Comp	EINECS No. 231-175-3 nic 1; H400, H4' 215-202-6 Inh. 4; H302, H3 231-955-3 231-955-3 231-955-3	(416) 813 GREDI % 15-40 10 15-40 332 10-20 5-10 5-10 5-10 5-10 5-7	ENT ACG ppr TLV NA [1 (5) (2.0) (1) ronic 1; H (3.5)	INF iIH n STEL NA NA NA NA NA 1302, 1 NA	ORN ES- TWA NF (5) NF (2.0) (1) 1314, H- (3.5)	AAT EXPOS NOHSC ppm ES- STEL NF NF NF NF NF NF NF NF NF NF NF NF	ION SURE LI ES- PEAK NF NF NF NF NF 5 410 NF	PEL NA (5) NA (5)* (1) (3.5)	AIR (m OSHA ppm STEL NA NA NA NA	g/m ³) IDLH NA NA NA 50 NA	RESP FRAC
NGANESE DIOXIDE	CAS No. CAS No. CAS No. CAS No. 7440-66-6 Aquatic Acute 1313-13-9 Acute Tox. Ora 7732-18-5 7782-42-5 7646-85-7 Acute Tox. 4 *;	2: Call the N r night. In Ca DMPOSIT DMPOSIT ZG8600000 1; Aquatic Chro OP0350000 al 4; Acute Tox. ZC0110000 MD9659600 ZH1400000 ; Skin Corr. 1B; .	EINECS No. 231-175-3 nic 1; H400, H4' 215-202-6 Inh. 4; H302, H3 231-791-2 231-955-3 231-955-3 231-592-0 Aquatic Acute 1	GREDI % 15-40 10 15-40 10 5-10 5-10 ; Aquatic Ch	ENT ACG ppr TLV NA 1 (5) NA (2.0) (1) ronic 1; F	INF m STEL NA NA NA NA NA 1302, I	ORN ES- TWA NF (5) NF (2.0) (1) H314, H	AT EXPOSINONESC ppm ES- STEL NF NF NF NF NF NF NF	ION SURE LI ES- PEAK NF NF NF NF NF NF	PEL NA (5) NA (5)* (1)	A AIR (m OSHA ppm STEL NA NA NA	g/m³) IDLH NA NA NA 50	RESP FRAC
NGANESE DIOXIDE	CAS No. CAS No. 7440-66-6 Aquatic Acute 1313-13-9 Acute Tox. Ora 7732-18-5 7782-42-5 7782-42-5 7782-42-5 7782-42-5 7782-42-5 77846-85-7 Acute Tox. 4 *; 1333-86-4 7439-89-6	2: Call the N or night. In Ca DMPOSIT DMPOSIT ZG8600000 1; Aquatic Chro OP0350000 al 4; Acute Tox. ZC0110000 al 4; Acute Tox. ZC0110000 i Skin Corr. 1B; FF5800000 NO4565500	EINECS No. 231-175-3 nic 1; H400, H4' 215-202-6 Inh. 4; H302, H3 231-955-3 231-955-3 231-955-3 231-592-0 Aquatic Acute 1 215-609-9 231-096-4	GREDI % 15-40 15-40 15-40 332 10-20 5-10 5-10 5-10 5-10 3-7 1-5	ENT ACG ppr TLV NA 1 (5) (2.0) (1) ronic 1; H (3.5) (5)	INF n STEL NA NA NA NA NA NA NA	ORN ES- TWA NF (5) NF (2.0) (1) 1314, H- (3.5) NF	AT EXPOS NOHSC STEL NF NF NF NF NF NF NF 400, H4 NF	ION SURE LI ES- PEAK NF NF NF NF S 410 NF	PEL NA (5) NA (5)* (1) (3.5) (10)	AIR (m OSHA ppm STEL NA NA NA NA NA	g/m ³) IDLH NA NA NA 50 NA	RESP FRAC
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IC INGANESE DIOXIDE ATER AAPHITE IC CHLORIDE RBON BLACK DN TROLEUM ASPHALT	Collect, day o 3. CC CAS No. 7440-66-6 Aquatic Acute 1313-13-9 Acute Tox. Ora 7732-18-5 7732-18-5 7732-42-5 7646-85-7 Acute Tox. 4 *; 1333-86-4 7439-89-6 8052-42-4 12125-02-9 Acute Tox. 4, E	2: Call the N r night. In Ca DMPOSIT DMPOSIT ZG8600000 1; Aquatic Chro OP0350000 al 4; Acute Tox. ZC0110000 MD9659600 ZH1400000 ; Skin Corr. 1B; F55800000 NO4565500 Cl9900000 BP4550000 Eye Irrit. 2; H302	EINECS No. 231-175-3 nic 1; H400, H4' 215-202-6 Inh. 4; H302, H3 231-955-3 231-955-3 231-592-0 Aquatic Acute 1 215-609-9 231-096-4 232-490-9 235-186-4 2, H319	(416) 813 GREDI % 15-40 10 15-40 32 10-20 5-10 5-10 5-10 1-5 1-5 1-5 0.5-1.5	-5900. ENT ACG ppr TLV NA [1 (5) (5) (1) (2.0) (1) (5) (5) (5) (5) (5) (5) (1) (10)	INF n STEL NA NA NA NA NA NA NA NA	ORN ES- TWA NF (5) (5) (1) (1) (1) (3.5) NF NF (10) (10)	AAT EXPOSING Ppm ES- STEL NF NF NF NF NF NF NF NF NF NF (20)	ION SURE LI ES- PEAK NF NF NF NF S 410 NF NF NF NF	PEL NA (5) NA (5)* (1) (3.5) (10) 0.5 (10)	AIR (m OSHA ppm STEL NA NA NA NA NA	g/m ³) IDLH NA NA NA 50 NA NA NA	RESP FRAC
NGANESE DIOXIDE	Collect, day o 3. CC CAS No. 7440-66-6 Aquatic Acute 1313-13-9 Acute Tox. Ore 7732-18-5 7742-42-5 7646-85-7 Acute Tox. 4 *; 12125-02-9 Acute Tox. 4, E 7439-92-1	2: Call the N r night. In Ca DMPOSIT DMPOSIT ZG8600000 1; Aquatic Chro OP0350000 al 4; Acute Tox. ZC0110000 al 4; Acute Tox. ZC0110000 i 5; Acute Tox. ZC010000 i 5; Acute Tox. ZC010000 i 5; Acute Tox. ZC0100000 i 5; Acute Tox. ZC01000000 i 5; Acute Tox. ZC0100000 i 5; Acute Tox. ZC0100000 i 5; Acute Tox. ZC0100000 i 5; Acute Tox. ZC0100000 i 5; Acute Tox. ZC01000000 i 5; Acute Tox. ZC010000000000000 i 5; Acute Tox. ZC0100000000000000000000000000000000000	EINECS No. 231-175-3 231-175-3 231-175-3 nic 1; H400, H4' 215-202-6 Inh. 4; H302, H3 231-95-3 231-95-3 231-95-3 231-95-3 231-592-0 Aquatic Acute 1 215-609-9 231-096-4 232-490-9 235-186-4 2, H319 231-100-4	(416) 813 GREDI % 15-40 10 15-40 322 10-20 5-10 5-10 5-10 1-5 1-5 0.5-1.5 0-0.1	-5900. ENT ACG ppr TLV NA [(5) (5) (1) (5) (5) (5) (1) (5) (5) (1) (10) (0.05)	INF siH n STEL NA NA NA NA NA NA NA NA NA NA	ORN ES- TWA NF (5) (5) (5) (1) (1) (1) (3.5) NF NF (10) NF	IAT EXPOS NOHSC ppm ES- STEL NF (20) (0.15)	ION SURE LI ES- PEAK NF NF NF NF NF NF NF NF NF	PEL NA (5) NA (5)* (1) (3.5) (10) 0.5 (10) NA	AIR (m OSHA ppm STEL NA NA NA NA NA NA NA	g/m ³) IDLH NA NA NA 50 NA NA NA NA	RESP FRAC
NGANESE DIOXIDE	Collect, day o 3. CC CAS No. 7440-66-6 Aquatic Acute 1313-13-9 Acute Tox. Ore 7732-18-5 7742-42-5 7646-85-7 Acute Tox. 4 *; 12125-02-9 Acute Tox. 4, E 7439-92-1	2: Call the N r night. In Ca DMPOSIT DMPOSIT ZG8600000 1; Aquatic Chro OP0350000 al 4; Acute Tox. ZC0110000 MD9659600 ZH1400000 ; Skin Corr. 1B; F55800000 NO4565500 Cl9900000 BP4550000 Eye Irrit. 2; H302	EINECS No. 231-175-3 231-175-3 231-175-3 nic 1; H400, H4' 215-202-6 Inh. 4; H302, H3 231-95-3 231-95-3 231-95-3 231-95-3 231-592-0 Aquatic Acute 1 215-609-9 231-096-4 232-490-9 235-186-4 2, H319 231-100-4	(416) 813 GREDI % 15-40 10 15-40 322 10-20 5-10 5-10 5-10 1-5 1-5 0.5-1.5 0-0.1	-5900. ENT ACG ppr TLV NA 1 (5) (5) (1) (2.0) (1) (5) (5) (5) (5) (1) (5) (5) (5) (5) (1) (5) (5) (1) (1) (5) (5) (5) (5) (5) (1) (5) (5) (5) (5) (1) (5) (5) (5) (5) (5) (5) (5) (5	INF iiH n STEL NA NA NA NA NA NA NA NA NA NA	ORN ES- TWA NF (5) (5) (5) (1) (1) (1) (3.5) NF NF (10) NF	IAT EXPOS NOHSC ppm ES- STEL NF (20) (0.15)	ION SURE LI ES- PEAK NF NF NF NF NF NF NF NF NF	PEL NA (5) NA (5)* (1) (3.5) (10) 0.5 (10) NA	AIR (m OSHA ppm STEL NA NA NA NA NA NA NA	g/m ³) IDLH NA NA NA S0 NA NA NA NA NA NA 373, H4	RESP FRAC

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SAFETY DATA SHEET Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 4/30/2015 4. FIRST AID MEASURES Give large quantities of water, but do NOT induce vomiting. First Aid: Ingestion: 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. 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. 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. Eves: 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. 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 eve injury. Contact with eves may cause severe irritation, and possible eve 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: 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. 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: Chronic exposure may cause effects similar to those of acute exposure. Target Organs: Eyes, Skin, Respiratory System, Central Nervous System (CNS) Medical Conditions HEALTH NA Aggravated by Exposure: FLAMMABILITY PHYSICAL HAZARDS **PROTECTIVE EQUIPMENT** 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 decompose at high temperatures to form toxic gases (e.g., CO, CO_x, Hydrocarbons). Extinguishing Methods: CO2, Dry Chemical, Alcohol foam, Dry Chemical. Use water spray to cool containers. 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 Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Spills Equipment, including protective gloves and eyewear. Plastic or rubber gloves, respirator, eve/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.

SAFETY DATA SHEET

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

SDS Revision: 1.0

SDS Revision Date: 4/30/2015

7. HANDLING & STORAGE INFORMATION												
7.1	Work & Hygiene Practices:	Do not eat, drink or smoke wher	Do not eat, drink or smoke when handling this product. Handle as to avoid puncturing container(s).									
7.2	Storage & Handling:	sunlight. Keep away from incor	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									
7.3												
8. EXPOSURE CONTROLS & PERSONAL PROTECTION												
8.1	Exposure Limits:		ACGIH		NOHSC			OSHA		OTHER		
	ppm (mg/m ³)	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	
		ZINC CHLORIDE	(1)	NA	(1)	NF	5	(1)	NA	50	FUME	

		ZINC CHLORIDE	(1)	NA	(1)	NF	5	(1)	NA	50	FUME	
		CARBON BLACK	(3.5)	NA	(3.5)	NF	NF	(3.5)	NA	NA		
		IRON	(5)	NA	NF	NF	NF	(10)	NA	NA	0.5 – NIOSH	
		PETROLEUM ASPHALT	0.5	NA	NF	NF	NF	0.5	NA	NA		
		AMMONIUM CHLORIDE	(10)	NA	(10)	(20)	NF	(10)	NA	NA		
		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	
8.2	Ventilation & Engineering Controls:	General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station).										
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.										
8.4	Eye Protection:	Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this product. Always use protective eyewear when cleaning spills or leaks. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).										
8.5	Hand Protection:	Where contact is likely, impervious gloves are recommended. Do not wear rings, watches or jewelry. When handling large quantities of fluid (e.g., ≥ 1 gallon (3.8 L)), wear corrosion-resistant gloves.										
8.6	Body Protection:	No apron required when handling sealed undamaged battery. Where contact is likely, corrosion- resistant apron, clothing and boots should be worn. Eye wash stations and deluge showers should be available.										

9	PHYSICAL	& CHEMICAL PROPERTIES
ν.		

9.1	Appearance:	Cylindrical battery
9.2	Odor:	No apparent odor (sealed). Manganese dioxide/zinc powder is black/grey (broken).
9.3	Odor Threshold:	NA
9.4	pH:	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:	0.990-1.040 (at 25 °C)
9.12	Solubility:	Sealed electric battery: Insoluble.
9.13	Partition Coefficient (log Pow):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	NA

HARBOR FREIGHT TOOLS Quality Tools at Ridiculously Low Prices

SAFETY DATA SHEET

Page 4 of 6 **HFT-68383**

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/S8 & 1272/2008/EC Standards IDS Revision 1.0							
101 Stable under normal conditions; unstable with heat or contamination. 102 Heardnow Decomposition Oxides of carbon (CO, Co),. 103 Heardnow Decomposition Oxides of carbon (CO, Co),. 104 Continues to Avoid. Open frames, sparks, high heat, incompatible substances and direct sunlight, incompatible substances, and hear trafficked areas. 105 Incompatible Substances. Avoid extreme heat and ignition sources. Store away from oxidizers. Do not exceed heat, crush, disassemble, storicular or recharge. 111.1 Route of Entry: Inhalaton: [NO] Asterpton: [YES] Ingeston: [YES] 112 Toxicly Date: This product has NOT been tested on animals to obtain toxicology data. found in scientific literatur available for source of the components of the product and is presented below: 113 Aute Toxicity. See section 4.4 114 Ormone Toxicity: See section 4.3 115 Suspected Caranogen: [Lacg Is listed as ACGIH Group A3 (Confirmed animal carcinogen); LAGS Group; I (Caracer). 114 Ormone Toxicity: This product ontains Lead, which is suspected of causing reproductive toxicity in humans. 115 Suspected Caranogen: Unimaria is lated as ACGIH Group A3 (Confirmed animal carcinogen); LAGS Group (1 (Coracer), Carbon Black is listed as IARC Group (Possibly carcinogenic to humans); LAGS Group (2 (Possibly carcinogenic to huma							
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14.5 ADR/RID (EU): NOT REGULATED							
14.6 SCT (MEXICO): NOT REGULATED							
14.7 ADGR (AUS): NOT REGULATED							
15. REGULATORY INFORMATION							
15.1 SARA Reporting Requirements: This product contains Lead and Zinc, substances subject to SARA Title III, section 313 reporting requirements.							
Requirements: The product contains <u>Load</u> and <u>Line</u> , cubballious cubject to on a time in, coolar or opporting requirements.							
15.2 SARA Threshold Planning There are no specific Threshold Planning Quantities for the components of this product.							
15.2 SARA Threshold Planning Quantity: There are no specific Threshold Planning Quantities for the components of this product.							
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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. 15.4 SEROLA Parenthic Quantity							

SAFETY DATA SHEET

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

SDS Revision: 1.0 S

SDS Revision Date: 4/30/2015

		15. REGULATORY INFORMATION – cont'd								
15.5	Other Federal Requirements:	Lead and Cadmium are listed as Hazardous Air Pollutants (HAPs) under the Clean Air Act (CAA). Zinc and Cadmium are listed as Priority Pollutants under the Clean Water Act (CWA). Zinc, Lead and Cadmium 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). <u>Graphite</u> is found on the following state criteria lists: FL, MA, MN, PA, WA. <u>Manganese Dioxide</u> is found on the following state criteria lists: IL, MA, PA, and RI. <u>Zinc</u> is found on the following state criteria lists: IL, MA, NJ, and PA. <u>Carbon Black</u> is listed in the following state criteria lists: California Proposition 65 (CA65), MA, MN, NJ, and PA. 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.								
15.8	Other Requirements:	The primary component of this product is listed in Annex I of EU Directive 67/548/EEC: <u>Zinc Chloride</u> : Corrosive (C); Environmental Danger (N). <u>Risk Phrases</u> (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. <u>Safety Phrases</u> (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								
16.1	Other Information:									
		 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 smo while sing this product. Avoid release to the environment. Wear protective gloves/eye protection. IF SWALLOWED: C 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. 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 oth 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								

SAFETY DATA SHEET

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SDS Revision: 1.0

SDS Revision Date: 4/30/2015

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	merican Conference on Governmental Industrial Hygienists							
С	Ceiling Limit							
ES	ES Exposure Standard (Australia)							
IDLH	IDLH Immediately Dangerous to Life and Health							
OSHA	U.S. Occupational Safety and Health Administration							
PEL	PEL Permissible Exposure Limit							
STEL	Short-Term Exposure Limit							
TLV	Threshold Limit Value							
TWA	Time Weighted Average							
FIRST AID M	FIRST AID MEASURES							

AID MEASURES:

4 Extreme Hazard

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		HEALTH						
1	Slight Hazard		FLAMMABILITY						
2	Moderate Hazard		PHYSICAL HAZARDS						
3	Severe Hazard		PERSONAL PROTECTION						

PERSONAL PROTECTION RATINGS:

NR No Results ppm parts per million

FLAMMABILITY LIMITS IN AIR:

Autoignition Temperature

> LEL UEL

SCBA Self-Contained Breathing Apparatus NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

source of ignition

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в	в 🜍 🕚				н							
С	6				I							
D	B				J			Î				
Е			Ø		к	E						
F			E th		X			ervisor o direction				
Sa	Safety Glasses Splash Goggles					e Shield & tive Eyew		Gloves				
	Boots Synthetic Apron					tive Cloth	ing	Dust Respirator				
	Dust & Vapor Half-				F	ull Face		(Mask				
	ace Respi		Mask Re	spirator	Re	spirator		or SC				
OTHER STANDARD ABBREVIATIONS: ML Maximum Limit												
	ML	-										
	mg/m3	-	ams per cu	idic meter								
	NA ND		vailable etermined									
	ND		stablished									
	NE	Not Fo										
	NF	INUL FO	Juilu									

Minimum temperature required to initiate combustion in air with no other

Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

Upper Explosive Limit - highest percent of vapor in air, by volume, that will

explode or ignite in the presence of an ignition source

HAZARD	ATING															
	0	Minim	al Ha	azard					FL	AMN	ABILITY					
	1	Slight	Haz	ard									REA	CTIVITY		
	2	Moder	ate	Hazard								1		/		
	3	Sever	e Ha	zard							\frown	• /	X			
	4	Extrer	ne H	azard							1		ົ			
AC	D	Acidic								$\mathbf{\Sigma}$	• [_] /		۷			
AL	ĸ	Alkalir	ne							Γ	\checkmark ,		\checkmark			
cc	DR	Corros	sive									≁∕				
	₩	Use N	o W	ater					HE	ALT	"	×				
OX Oxidizer												× N		CIAL CAUTIONS		
TREFOIL Radioactive													T NL			
TOXICOLOGICAL INFORMATION:								_								
	Leth s	nal D)ose (s	olids 8	& liqui	ds) whi	ich k	ills 50%	of the e	xpose	ed animals					
			LC ₅₀	Leth	nal c	oncent	ration	(gase	es) whic	h kil	ls 50% of	the exp	posed	animal		
			ppm	Con	Concentration expressed in parts of material per million parts											
				Low	Lowest dose to cause a symptom											
		Т	CLo	Low	Lowest concentration to cause a symptom											
) _{io} , & Ll LC _{io} , &			Lowest dose (or concentration) to cause lethal or toxic effects											
		L	ARC	Inte	rnati	ional A	gency	for R	esearcl	n on	Cancer					
NTP				Nati	National Toxicology Program											
		RT	ECS	Reg	listry	of Tox	ic Effe	ects o	f Chem	ical	Substanc	es				
	Biod	Bioconcentration Factor														
	Med	Median threshold limit Coefficient of Oil/Water Distribution														
log	Coe	fficie	ent of C)il/Wa	ter Di	stributio	n									
log Kow or log Koc Coefficient of Oil/Wa REGULATORY INFORMATION:																
WHMIS Canadian Workplace Hazardous							lous N	/lateria	al Inforr	natio	on Syster	n				
DC	DOT U.S. Depart					ranspo	rtation	l .								
1	ГС			Canada												
EF	PΑ			onment		rotectio	on Aae	encv								
	SL			Domes												
NOHS	SC								v Comr	nissi	on (Austr	alia)				
NDS	SL				on-Domestic Substance List											
	SL			Priority					-							
TSC				Substa												
E	U				nion (European Union Directive 67/548/EEC)											
WG						-										
HMIS-			-		rdungsklassen (German Water Hazard Class) t & Coatings Association Hazardous Materials Identification System											
					OUS MATERIALS IDENTIFICATION (WHMIS) SYSTE								-			
	Г		Т										,			
\bigcirc	(۲)	٩)	(file)	\mathbf{b}	Ć	\mathbb{E}					Ŕ		
Class A		Class B		Class ()	Class	D1	Clas	ss D2	Class D3		Class	E	Class F		
Compressed		lammable		Oxidizin	-	Тох	ic	Irrit	Irritation Infectious			Corrosi	ve	Reactive		
EC (67/5	48/	EEC) I	NFO	ORMA	TIC	DN:					<u> </u>		,			
						¥	2	×	3	av	&	×		×		
С		Е		F		N			0		т	Xi		Xn		
Corrosive	E	Explosive		Flammal	ble	Harn	nful	Oxi	dizing		Toxic	Irritan	ıt	Harmful		
CLP/GH	S (1	272/2	008	EC) F	רסוי	OGR	AMS	:								
CLP/GHS (1272/2008/E			1503	<	HS04	GHS	Ged A	GHSC	2	GHS07	GH	508	GHS09			
GHS01	0	HS02	0		0		511		51100		0.1007		200	0000		

HAZARD RATINGS:										
0	Minimal Haz	Minimal Hazard								
1	Slight Hazar	ď								
2	Moderate H	azard								
3	Severe Haz	ard								
4	Extreme Ha	zard								
ACD	Acidic									
ALK	Alkaline									
COR	Corrosive									
W	Use No Water									
ох	Oxidizer									
TREFOIL	Radioactive									
TOXICOLOGICAL INFORMATION:										
	LD ₅₀	Lethal Dose (solids & liqui s								

TD _{lo}		Lowest dose to cause a symptom				
TCLo		Lowest concentration to cause a symptom				
TD _{Io} , LD _{Io} , & LD _o or		Lowest dose (or concentration) to cause lethal or toxic effects				
TC, TC₀,	LC _{io} , & 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 _{ov}	v or log K _{oc}	Coefficient of Oil/Water Distribution				
REGULATORY INFORMATION:						
WHMIS	Canadian Workplace Hazardous Material Information System					
DOT	U.S. Department of Transportation					
тс	Transport C	Transport Canada				
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	Wassergefä	hrdungsklassen (German Water Hazard Class)				

WORKI EAGE HAZARDOOS MATERIAES IDENTIFICATION (WITMIS) STOTEM.								
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Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F	
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive	
EC (67/548/EEC) INFORMATION:								

		Ż	¥	8	*	×	×
с	E	F	Ν	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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