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-92406

SDS Revision Date: 4/30/2015

1.1	Product Name:		LINE BAT	TERY										
.2	Chemical Name:	Alkaline Batte												
.3	Synonyms:	P/N 92406												
.4	Trade Names:	Thunderbolt N	Magnum											
.5	Product Uses & Restrictions:	Electric Stora	U											
.6	Distributor's Name:		nt Tools USA, I	nc										
.7	Distributor's Address:	0		asas, CA 91302										
.8	Emergency Phone:	Ŭ	,	<b>527-3887</b> /		0) 404	0200		N 67	6607	、 、			
.9	Business Phone / Fax:			521-3001 /	<b>TI (00</b>	J) 424·	-9300		IN O/	0007	)			
.9	Business Flione / Fax.	+1 (805) 388-	-1000											
			2. H/	AZARDS	IDENT	<b>IFIC</b>		N						
.1	Hazard Identification:	classification WARNING! EFFECTS. Hazard State effects. Precautionary	criteria of [NOF HARMFUL IF ments (H): H30 y Statements (I ghly after handl	IS a hazardous HSC: 1088 (200 SWALLOWEI D2 – Harmful if P): P264 – Wa ling. P270 – Di pmont P270	D4)] and A D. TOXII swallowe ash hand o not eat,	ADG Coo C TO A d. H41 <sup>2</sup> s and ex drink or	de (Aus QUAT 1 – Tox xposed	stralia I <b>C LIF</b> xic to a d skin e while	). FE WI aquatio areas e sing	TH LC c life w with s this pr	NG L vith lon coap a	ASTIN ng lasti nd wa P273	NG ng rm 3 –	
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ANG NC DTAS ON ( RAPH ARBO	ANESE DIOXIDE SSIUM HYDROXIDE STEEL) HITE DN BLACK	SWALLOWEI Collect spillag facility (TSDF IF INGESTE collect, day of 3. CC CAS No. 1313-13-9 Acute Tox. Or 7440-66-6 Aquatic Acute 1310-58-3 Acute Tox. Or 7439-89-6 Acute Tox. 4 * 7439-89-6 Acute Tox. 4 * 782-42-5 1333-86-4 7439-92-1 Acute Tox. 4;	D: Call a POIS ge. P501 – Dis D: Call the N or night. In Ca OMPOSIT OP0350000 ral 4; Acute Tox. ZG8600000 a1; Aquatic Chron TT210000 ral 4; Acute Tox. NO4565500 *; Skin Corr. 1A; 1 MD9659600 FF5800000	CON CENTER/ spose of conter ATIONAL BA anada, call +1 TON & IN( EINECS No. 215-202-6 Inh. 4; H302, H33 231-175-3 nic 1; H400, H411 215-181-3 Inh. 4; H302, H33 231-096-4 H302, H314 231-096-4 H302, H314 231-955-3 215-609-9 231-100-4 epr. 1A; STOT RE	doctor if y nts/contai (416) 813 GRED 0 20-60 32 15-40 0 7-13 32 10-20 3-7 3-7 0-0.1 2; Aquatic	you feel ner to liv INGEST 3-5900. IENT IENT TLV (5) NA (5) (2.0) (2.0) (3.5) (0.05) c Acute 1	INF( INF( INF( INF( INF) INF) INF( INF) INF) INF( INF) INF) INF( INF) INF) INF) INF( INF) INF) INF) INF) INF) INF) INF) INF)	I. P33 s treats IOTLI ORN ES- TWA (5) NF (2) NF (2.0) (3.5) NF (3.5)	30 – R ment, NE at NE at ES- STEL NF NF NF NF NF NF NF (0.15) nic 1; H	inse n storag +1 (2 ION SURE L ES- PEAK NF NF NF NF NF NF NF	nouth. e and 202) 6 imits in PEL (5) NA (10) (5)* (3.5) NA 332, H:	P391 dispos 225-33 3 3 3 3 3 3 5 5 5 5 5 5 7 8 7 8 7 8 7 8 7 8 7 8 7 8	g/m <sup>3</sup> ) IDLH NA NA NA NA NA NA NA	0.5 – NIOSH RESP FRAC
ANG, NC DTAS ON ( RAPH	ANESE DIOXIDE SSIUM HYDROXIDE STEEL) HITE DN BLACK	SWALLOWEI Collect spillag facility (TSDF IF INGESTE collect, day of 3. CC CAS No. 1313-13-9 Acute Tox. Or 7440-66-6 Aquatic Acute 1310-58-3 Acute Tox. Or 7439-89-6 Acute Tox. Or 7439-89-6 Acute Tox. 4 * 782-42-5 1333-86-4 7439-92-1 Acute Tox. 4; 7440-43-9	D: Call a POIS ge. P501 – Dis D: Call the N or night. In Ca OMPOSIT OP0350000 ral 4; Acute Tox. ZG8600000 a1; Aquatic Chrou TT2100000 ral 4; Acute Tox. NO4565500 a; Skin Corr. 1A; 1 MD9659600 FF5800000 Acute Tox. 4; Re NA	CON CENTER/ spose of conter ATIONAL BA anada, call +1 TON & INC EINECS No. 215-202-6 Inh. 4; H302, H33 231-175-3 nic 1; H400, H411 215-181-3 Inh. 4; H302, H33 231-096-4 H302, H314 231-096-4 H302, H314 231-955-3	doctor if y nts/contai (416) 813 GRED 20-60 32 15-40 0 7-13 32 10-20 3-7 3-7 3-7 0-0.1 2; Aquatic 0-0.1	you feel ner to liv INGEST 3-5900. IENT ILV (5) NA (5) (2.0) (3.5) (0.05) c Acute 1 (0.01)	INF ( INF (	I. P33 s treats IOTLI ORN ES- TWA (5) NF (2) NF (2.0) (3.5) NF (3.5) NF (3.5)	30 – R ment, NE at AAT EXPO NOHSC PPM ES- STEL NF NF NF NF NF NF NF NF NF	Linse n storag +1 (2 ION SURE L ES- PEAK NF NF NF NF NF NF NF NF NF NF	nouth. e and 202) 6 imits in PEL (5) NA (10) (5)* (3.5) NA 332, Hi (0.1)	P391 dispos 225-33 325-33 325-33 325-33 0.54 0.54 0.54 0.3	<pre>sal sal g/m³) iDLH NA NA NA NA NA NA NA NA (NA NA (NA) (NA)</pre>	0.5 – NIOSH RESP FRAC 00, H410 (0.02) RESP F

HAF	BOR FREIGHT TOOLS		SAFETY DA		ET	Page 2 of 6 <b>HFT-92406</b>
Prepa	ared to OSHA, ACC, ANSI, NO	OHSC, WHMIS	, 2001/58 & 1272/2008/EC Standards	SDS Revision:	1.0 SDS Revision	Date: 4/30/2015
			4. FIRST AID ME	ASURES		
4.1	First Aid:	Ingestion:	Give large quantities of water, but unconscious person. Contact the nea assistance and instructions. Seek in victim's head lowered (forward) to red	do NOT induce vom est Poison Control Ce mediate medical atte	enter or local emergency ntion. If vomiting occurs	telephone number for
		<u>Eyes</u> :	If product gets in the eyes, flush eyes holding eyelid(s) open to ensure comp use, consult a physician or emergency	plete flushing. If the e		
		<u>Skin</u> :	If an open battery cell: Remove conta discomfort persists and/or the skin contaminated clothing until after it has	reaction worsens, co	ntact a physician imme	
		Inhalation:	Remove victim to fresh air at once respiration. Seek immediate medical		nditions, if breathing st	ops, perform artificial
4.2	Effects of Exposure:	Ingestion: Eyes: Skin: Inhalation:	May cause severe irritation of mo compounds may cause abdominal pai Severe irritation, burns, cornea damag Severe irritation, burns, and ulceration Inhalation of lead dust or fumes may of	n, nausea, vomiting, d ge, blindness. Lead co i if open battery cell co	liarrhea, and severe cran mpounds may cause irrit mes into contact with sk	nping. ation. n.
4.3	Symptoms of Overexposure:	Ingestion: Eyes:	Severe discomfort, nausea, vomiting permanent tissue destruction of the es May cause irreversible eye injury. Co Severe irritation, redness, and waterin	) and headache. Har sophagus and digestiv ntact with eyes may c	mful if swallowed. May e tract.	cause corrosion and
		<u>Skin</u> : Inhalation:	Severe skin irritation, red, itching skin skin. May cause cyanosis (bluish discolora lead to chemical pneumonitis and pu which is characterized by flu-like sym muscle pain and increased white bloc	tion of skin due to de Ilmonary edema. Inha ptoms with metallic ta	ficient oxygenation of the alation of fumes may ca ste, fever, chills, cough,	e blood). Irritation may use metal fume fever weakness, chest pain
4.4	Acute Health Effects:		exposure can occur only when product is create dust, vapor, or fume.			
4.5	Chronic Health Effects:		osure may cause effects similar to those	of acute exposure.		
4.6	Target Organs:	Eyes, Skin,	Respiratory System, Central Nervous Sy	vstem (CNS)		
4.7	Medical Conditions Aggravated by Exposure:	NA			HEALTH FLAMMABILITY PHYSICAL HAZARDS PROTECTIVE EQUIP	
					EYES SKIN	
			5. FIREFIGHTING N	FASURES		
5.1	Fire & Explosion Hazards:		al can burn but will not readily ignite. at high temperatures to form toxic gases	However, if involved		ау
5.2	Extinguishing Methods:		nemical, Alcohol foam, Dry Chemical. Us			
5.3	Firefighting Procedures:	containers. I chemical, ca quantities of sewers, dra gear includi	uishing media most appropriate for the For small fires, use dry chemical, carbon arbon dioxide, alcohol-resistant foam, f water until well after fire is out. Prever ins, drinking water supply, or any natu ing NIOSH-approved positive pressure ential hazardous combustion or decompo	n dioxide, or water spr or water spray. Coo It runoff from fire contural waterway. Firefig self-contained breat	ay. For large fires, use of containers with floodi rol or dilution from enteri hters must use full bunk hing apparatus to prote	Iry ng ng er
			6. ACCIDENTAL RELEA	SE MEASURE	S	
6.1	Spills:	Equipment, chemical-res <u>Small Spills</u> material suc <u>Large Spills</u> immediate h	ning any spill or leak, individuals inv including protective gloves and eyew sistant apron may be required for clean- . Wear appropriate protective equipmer th as vermiculite or sand to soak up the g. Keep incompatible materials away azard area and keep unauthorized pers appropriate protective equipment inclu	olved in spill cleanup ear. Plastic or rubbe up of large spills. It including gloves an product and place into from spill. Stay upw onnel out of area. Sto	o must wear appropriat er gloves, respirator, ey d protective eyewear. L a container for later disp vind and away from sp op spill or release if it car	e/face protection and lse a non-combustible osal. Il or release. Isolate be done with minima

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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

7.1	Work & Hygiene Practices:	Do not eat, drink or smoke when handling this product. Handle as to avoid puncturing container(s).
7.2	Storage & Handling:	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:	This battery is not designed for recharging. Recharging can cause battery leakage or high pressure rupture, in som cases. Inadvertent charging can happen if a battery is installed backwards. Accidental short circuit for a few second 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, met covered tables or metal belts used for assembly of batteries in devices.

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

			-								
8.1	Exposure Limits:		ACG	IH		NOHSC	1		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)	
8.2	Ventilation & Engineering Controls:	General mechanical (e.g., fans exhaust ventilation to effective product. Ensure appropriate de	y remov	e and p	prevent bu	uildup of v	apors or	mist gen	erated	from th	e handling of this
8.3	Respiratory Protection:	No special respiratory protection instances where mist or vapors use only protection authorized Canadian CAS Standard Z94.4 States, or Australia.	of this p by 29 (	roduct a	are genera 910.134,	ated, and i applicable	respiratory U.S. Sta	protection te regula	on is ne ations, d	eded, or the	
8.4	Eye Protection:	Wear protective eyewear (e.g. product. Always use protectiv protection tested and approved 166(EU).	e eyewe	ar when	n cleaning	spills or	leaks. Us	se equip	ment fo	or eye	0
8.5	Hand Protection:	Where contact is likely, impervio When handling large quantities									
8.6	Body Protection:	No apron required when handl resistant apron, clothing and bo be available.									
		9. PHYSICAI	_ & CI	IEMI	CAL P	ROPE	RTIES				
9.1	Appearance:	Cylindrical battery									
9.2	Odor:	No apparent odor (sealed). Man	nanese (	liovide/2							
9.3	a				zinc nowde	er is black/	arev (brok	en)			
	Odor Threshold:		0		zinc powde	er is black/	grey (brok	en).			
94		NA	0		zinc powde	er is black/	grey (brok	en).			
9.4 9.5	pH:	NA NA			zinc powde	er is black/	grey (brok	en).			
9.4 9.5 9.6	pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling	NA			zinc powde	er is black/	grey (brok	en).			
9.5	pH: Melting Point/Freezing Point:	NA NA NA NA			zinc powde	er is black/	'grey (brok	en).			
9.5 9.6	pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range:	NA NA NA			zinc powde	er is black/	'grey (brok	en).			
9.5 9.6 9.7	pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability	NA NA NA NA NA			zinc powde	er is black/	grey (brok	en).			
9.5 9.6 9.7 9.8	pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits:	NA NA NA NA NA NA			zinc powde	er is black/	grey (brok	en).			
9.5 9.6 9.7 9.8 9.9	pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure:	NA NA NA NA NA NA NA NA			zinc powde	er is black/	grey (brok	en).			
9.5 9.6 9.7 9.8 9.9 9.9	pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density:	NA           NA           NA           NA           NA           NA           NA           NA           0.990-1.040 (at 25 °C)			zinc powde	er is black/	grey (brok	en).			
9.5 9.6 9.7 9.8 9.9 9.10 9.11 9.12	pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility:	NA         NA         NA         NA         NA         NA         NA         NA         O.990-1.040 (at 25 °C)         Sealed electric battery: Insoluble			zinc powde	er is black/	grey (brok	en).			
9.5 9.6 9.7 9.8 9.9 9.10 9.11 9.12 9.13	pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow):	NA         NA         NA         NA         NA         NA         NA         NA         O.990-1.040 (at 25 °C)         Sealed electric battery: Insoluble         NA			zinc powde	er is black/	grey (brok	en).			
9.5 9.6 9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14	pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log P <sub>ow</sub> ): Autoignition Temperature:	NA         NA         NA         NA         NA         NA         NA         NA         O.990-1.040 (at 25 °C)         Sealed electric battery: Insoluble         NA         NA         NA			zinc powde	er is black/	grey (brok	en).			
9.5 9.6 9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14 9.15	pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature:	NA         NA         NA         NA         NA         NA         NA         NA         O.990-1.040 (at 25 °C)         Sealed electric battery: Insoluble         NA         NA			zinc powde	er is black/	grey (brok	en).			
9.5 9.6 9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14	pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log P <sub>ow</sub> ): Autoignition Temperature:	NA         NA         NA         NA         NA         NA         NA         NA         O.990-1.040 (at 25 °C)         Sealed electric battery: Insoluble         NA         NA         NA			zinc powde	er is black/	grey (brok	en).			

HARBOR FREIGHT TOOLS Quality Tools at Ridiculously Low Prices

# SAFETY DATA SHEET

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<b>D</b>		
Prepa	red to OSHA, ACC, ANSI, N	OHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 4/30/2015
10.1	<b>0</b> . 1 III	10. STABILITY & REACTIVITY
10.1	Stability:	Stable under normal conditions; unstable with heat or contamination.
10.2	Hazardous Decomposition Products:	Oxides of carbon (CO, CO <sub>2</sub> ).
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Open flames, sparks, high heat, incompatible substances and direct sunlight, incompatible substances and heavily trafficked areas.
10.5	Incompatible Substances:	Avoid extreme heat and ignition sources. Store away from oxidizers. Do not exceed heat, crush, disassemble, short- circuit or recharge.
		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	Inhalation: NO Absorption: YES Ingestion: YES
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product and is presented below: Manganese Dioxide: LD <sub>50</sub> (oral, rat): 3478 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 (cancer). <u>Cadmium</u> is listed as ACGIH Group A2 (Suspected human carcinogen); IARC Group 1 (Carcinogenic to humans); NTP13 Group 1 (Known human carcinogen); CA65 (cancer). <u>Carbon Black</u> is listed as IARC Group 2B (Possibly carcinogenic to humans); CA65 (cancer).
11.6	Reproductive Toxicity:	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
11.9	Physician Recommendations:	Treat symptomatically and supportively.
12.1	Environmental Stability:	12. ECOLOGICAL INFORMATION There are no specific data available for this product.
12.2	Effects on Plants & Animals:	There are no specific data available for this product.
12.3	Effects on Aquatic Life:	$\label{eq:mercury: LC50} \begin{tabular}{lllllllllllllllllllllllllllllllllll$
		13. DISPOSAL CONSIDERATIONS
13.1	Waste Disposal:	Dispose of in accordance with federal, state, provincial and local regulations.
13.2	Special Considerations:	NA
		14. TRANSPORTATION INFORMATION
		mber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional
		e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.
14.1	49 CFR (GND):	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
		15. REGULATORY INFORMATION
15.1	SARA Reporting	This product contains Lead, Mercury and Zinc, substances subject to SARA Title III, section 313 reporting requirements.
15.2	Requirements: SARA Threshold Planning	There are no specific Threshold Planning Quantities for the components of this product.
15.3	Quantity: TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.
15.4	CERCLA Reportable Quantity (RQ):	Zinc:         454 kg (1,000 lbs);         Mercury:         0.454 kg (1.0 lbs)

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		15. REGULATORY INFORMATION – cont'd
15.5	Other Federal Requirements:	<u>Mercury, Lead</u> and <u>Cadmium</u> are listed as Hazardous Air Pollutants (HAPs) under the Clean Air Act (CAA). <u>Zinc,</u> <u>Cadmium</u> and <u>Mercury</u> are listed as Priority Pollutants under the Clean Water Act (CWA). <u>Zinc, Lead, Cadmium</u> and <u>Mercury</u> 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 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. Carbon Black 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 hazardous Substances List (WI). WARNING: This product contains a substance f Colifornia to cance cancer bith defects or other
		<b>WARNING:</b> 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: 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 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.
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

Explosive

Flammable

Oxidizer

Pressurized

Corrosive

Toxic

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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	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:

### 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 & I	REAC	CTIVITY 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		F			
в						Η		F			
С						I		F			
D	B					J		E	9		
Е			Ø			Κ	(1) (1)	E			
F			T,I			X	Consult special I				
Sa	ifety Glasso	es	Splash	Goggles	Pr		Shield & ive Eyew		GI	ove	s
	Boots		Synthet	ic Apron	Pr		ive Cloth	ing	Dust R	esp	irator
E.III 6	ace Respi	rator		apor Half-			III Face		Airline H		
	ER STAN			espirator	S:	Re	spirator		or	SCB	A
	ML	Maxim	num Limit								
	mg/m3	milligra	ams per cu	ubic meter							
	NA	Not Av	/ailable								
	ND	Not De	etermined								
	NE	Not Es	stablished								
	NF	Not Fo	ound								

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
FLAMMABILI	TY 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	RATING	iS:										
	-	al Hazaro	1				FLAMMABILITY					
		Hazard	-			_			$\mathbf{A}$		ACTIVITY	
	v	rate Haza	rd			_				<b>A</b>		
		e Hazard										
		ne Hazar										
AC			<u> </u>			_						
AL								$\boldsymbol{r}$			/	
CO						─						
-		lo Water	HEALTH									
	X Oxidiz										PECIAL	
TREFO										P	RECAUTIONS	
TOXICOL			мат	ION								
					olids	& liqui	ids) wh	ich k	kills 50% (	of the expo	sed animals	
		LC <sub>50</sub> L	ethal o	concent	ration	(gase	es) whic	:h kil	lls 50% of	f the expos	ed animal	
										er million p		
				dose to					latoriai p	or minori p		
	г			concen					ptom			
TDe	, LD <sub>io</sub> , & L							-		or toxic eff	ects	
	C <sub>o</sub> , LC <sub>io</sub> , & E	-		2000 (0	5011	20.100		Sub				
			ternat	tional A	gencv	for R	esearc	h on	Cancer			
				al Toxico	• •							
						-		ical	Substanc	es		
			-	centratio								
				thresho								
loa l	K <sub>ow</sub> or log			ient of C			stributio	on				
REGULA												
WHMI						latori	al Infor	mati	on Svetor	n		
DO		Departme	-				aterial Information System					
		port Cana		тапъро	Itatioi	1						
EP				Protoctic		0001						
		Invironm										
DS		dian Dom					0		(A	- !! - )		
NOHS								nissi	ion (Austr	alla)		
NDS		dian Non-					t .					
PS			iority Substances List									
TSC			ubstance Control Act ion (European Union Directive 67/548/EEC)									
	·							_				
WG			ndungsklassen (German Water Hazard Class) nt & Coatings Association Hazardous Materials Identification Syst							<u> </u>		
HMIS-I				-							-	
WORKPL			051					CA		VHIVIS) S	STSTEM:	
0	۲			(Ja	$\mathbf{k}$	Ć	Ð	(	۲		Ŕ	
Class A	Class B	Clas	s C	Class	D1	Clas	ss D2	CI	ass D3	Class E	Class F	
compressed	Flammabl				ic	Irrit	ation	Inf	fectious	Corrosive	Reactive	
EC (67/54				UN.		1						
		×	y	¥	2	×	8		<b>&amp;</b>	X	×	
С	E	1		N			0		Т	Xi	Xn	
Corrosive	Explosive	e Flam	nable	Harn	nful	Oxi	dizing		Toxic	Irritant	Harmful	
CLP/GHS	6 (1272/2	008/EC	PIC	TOGR	AMS	:					•	
	<b>(10)</b>	٢		$\Rightarrow$	k1	(ad		A D	(!)			
GHS01	GHS02	GHS03	G	HS04	GH	S05	GHS	06	GHS07	GHS08	GHS09	
	-				1				1 In sector	11		

Harmful

Irritating

Health

Hazard

Environmen