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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

1. PRODUCT & COMPANY IDENTIFICATION				
1.1	Product Name:	AAA ALKALINE BATTERY		
1.2	Chemical Name:	Alkaline Battery		
1.3	Synonyms:	P/N 92405		
1.4	Trade Names:	Thunderbolt Magnum		
1.5	Product Uses & Restrictions:	Electric Storage Battery		
1.6	Distributor's Name:	Harbor Freight Tools USA, Inc.		
1.7	Distributor's Address:	26541 Agoura Road, Calabasas, CA 91302 USA		
1.8	Emergency Phone:	CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 676687)		
1.9	Business Phone / Fax:	+1 (805) 388-1000		

2. HAZARDS IDENTIFICATION

.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).

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

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

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

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



3. COMPOSITION & INGREDIENT INFORMATION

3. COMPOSITION & INGREDIENT INFORMATION												
	EXPOSURE LIMITS				IMITS II	N AIR (m	g/m³)					
				AC	GIH		NOHSC	:		OSHA		
				pp	om		ppm			ppm		
						ES-	ES-	ES-				
				_					PEL	_		OTHER
1313-13-9	OP0350000	215-202-6	20-60	(5)	NA	(5)	NF	NF	(5)	NA	NA	
Acute Tox. Or	al 4; Acute Tox. I	nh. 4; H302, H33	2									
7440-66-6	ZG8600000	231-175-3	15-40	NA	NA	NF	NF	NF	NA	NA	NA	
Aquatic Acute	1; Aquatic Chron	nic 1; H400, H410)									
1310-58-3	TT2100000	215-181-3	7-13	NA	NA	(2)	NF	NF	NA	NA	NA	
Acute Tox. Oral 4; Acute Tox. Inh. 4; H302, H332												
7439-89-6	NO4565500	231-096-4	10-20	(5)	NA	NF	NF	NF	(10)	NA	NA	0.5 - NIOSH
Acute Tox. 4 *	; Skin Corr. 1A; H	H302, H314										
7782-42-5	MD9659600	231-955-3	3-7	(2.0)	NA	(2.0)	NF	NF	(5)*	NA	NA	RESP FRAC
1333-86-4	FF5800000	215-609-9	3-7	(3.5)	NA	(3.5)	NF	NF	(3.5)	NA	NA	
7439-92-1	OF7525000	231-100-4	0-0.1	(0.05)	NA	NF	(0.15)	NF	NA	100	NA	
Acute Tox. 4;	Acute Tox. 4; Re	pr. 1A; STOT RE	2; Aquatic	Acute	1; Aqua	tic Chro	nic 1; I	H302, ⊢	1332, H	360, H3	73, H4	00, H410
7440-43-9	NA	231-152-8	0-0.1	(0.01)	NA	NF	NF	NF	(0.1)	0.3	(9)	(0.02) RESP FRAC
Acute Tox. 2;	Muta. 2; Carc. 1E	3; Repr. 2; STOT	SE 1; Aq.	Acute 1	; Aq. Cl	hronic 1	; H330	, H341,	H350,	H361fd	H372,	H400, H410
7439-97-6	OV4550000	231-106-7	0-0.1	NA					NA	NA	(10)	
Repr. 1B; Acu	te Tox. 2 *; STO	RE 1; Aquatic A	cute 1; Aq	uatic Ch	ronic 1	; H360I	D***, H	330, H3	72**, H	1400, H4	10	•
	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 * 7782-42-5 1333-86-4 7439-92-1 Acute Tox. 4; 7440-43-9 Acute Tox. 2; 7439-97-6	CAS No. RTECS No. 1313-13-9 OP0350000 Acute Tox. Oral 4; Acute Tox. I 7440-66-6 ZG8600000 Aquatic Acute 1; Aquatic Chror 1310-58-3 TT2100000 Acute Tox. Oral 4; Acute Tox. I 7439-89-6 NO4565500 Acute Tox. 4 *; Skin Corr. 1A; I 7782-42-5 MD9659600 1333-86-4 FF5800000 7439-92-1 OF7525000 Acute Tox. 4; Acute Tox. 4; Re 7440-43-9 NA Acute Tox. 2; Muta. 2; Carc. 1E 7439-97-6 OV4550000	CAS No. RTECS No. EINECS No. 1313-13-9 OP0350000 215-202-6 Acute Tox. Oral 4; Acute Tox. Inh. 4; H302, H33 7440-66-6 ZG8600000 231-175-3 Aquatic Acute 1; Aquatic Chronic 1; H400, H410 1310-58-3 TT2100000 215-181-3 Acute Tox. Oral 4; Acute Tox. Inh. 4; H302, H33 7439-89-6 NO4565500 231-096-4 Acute Tox. 4 *; Skin Corr. 1A; H302, H314 7782-42-5 MD9659600 231-955-3 1333-86-4 FF5800000 215-609-9 7439-92-1 OF7525000 231-100-4 Acute Tox. 4; Acute Tox. 4; Repr. 1A; STOT RE 7440-43-9 NA 231-152-8 Acute Tox. 2; Muta. 2; Carc. 1B; Repr. 2; STOT 7439-97-6 OV4550000 231-106-7	CAS No. RTECS No. EINECS No. % 1313-13-9 OP0350000 215-202-6 20-60 Acute Tox. Oral 4; Acute Tox. Inh. 4; H302, H332 7440-66-6 ZG8600000 231-175-3 15-40 Aquatic Acute 1; Aquatic Chronic 1; H400, H410 1310-58-3 TT2100000 215-181-3 7-13 Acute Tox. Oral 4; Acute Tox. Inh. 4; H302, H332 7439-89-6 NO4565500 231-096-4 10-20 Acute Tox. 4 *; Skin Corr. 1A; H302, H314 7782-42-5 MD9659600 231-955-3 3-7 1333-86-4 FF5800000 215-609-9 3-7 7439-92-1 OF7525000 231-100-4 0-0.1 Acute Tox. 4; Acute Tox. 4; Repr. 1A; STOT RE 2; Aquatic	CAS No. RTECS No. EINECS No. % TLV 1313-13-9 OP0350000 215-202-6 20-60 (5) Acute Tox. Oral 4; Acute Tox. Inh. 4; H302, H332 7440-66-6 ZG8600000 231-175-3 15-40 NA Aquatic Acute 1; Aquatic Chronic 1; H400, H410 1310-58-3 TT2100000 215-181-3 7-13 NA Acute Tox. Oral 4; Acute Tox. Inh. 4; H302, H332 7439-89-6 NO4565500 231-096-4 10-20 (5) Acute Tox. 4 *; Skin Corr. 1A; H302, H314 7782-42-5 MD9659600 231-955-3 3-7 (2.0) 1333-86-4 FF5800000 215-609-9 3-7 (3.5) 7439-92-1 OF7525000 231-100-4 0-0.1 (0.05) Acute Tox. 4; Acute Tox. 4; Repr. 1A; STOT RE 2; Aquatic Acute 7440-43-9 NA 231-152-8 0-0.1 (0.01) Acute Tox. 2; Muta. 2; Carc. 1B; Repr. 2; STOT SE 1; Aq. Acute 17439-97-6 OV4550000 231-106-7 0-0.1 NA	CAS No. RTECS No. EINECS No. % TLV STEL 1313-13-9 OP0350000 215-202-6 20-60 (5) NA Acute Tox. Oral 4; Acute Tox. Inh. 4; H302, H332 7440-66-6 ZG8600000 231-175-3 15-40 NA NA Aquatic Acute 1; Aquatic Chronic 1; H400, H410 1310-58-3 TT2100000 215-181-3 7-13 NA NA Acute Tox. Oral 4; Acute Tox. Inh. 4; H302, H332 7439-89-6 NO4565500 231-096-4 10-20 (5) NA Acute Tox. 4 *; Skin Corr. 1A; H302, H314 7782-42-5 MD9659600 231-955-3 3-7 (2.0) NA 1333-86-4 FF5800000 215-609-9 3-7 (3.5) NA 7439-92-1 OF7525000 231-100-4 0-0.1 (0.05) NA Acute Tox. 4; Acute Tox. 4; Repr. 1A; STOT RE 2; Aquatic Acute 1; Aquate Tox. 4; Acute Tox. 4; Repr. 1A; STOT RE 2; Aquatic Acute 1; Aquate Tox. 2; Muta. 2; Carc. 1B; Repr. 2; STOT SE 1; Aq. Acute 1; Aq. Cl	CAS No. RTECS No. EINECS No. % TLV STEL TWA 1313-13-9 OP0350000 215-202-6 20-60 (5) NA (5) Acute Tox. Oral 4; Acute Tox. Inh. 4; H302, H332 7440-66-6 ZG8600000 231-175-3 15-40 NA NA NA NF Aquatic Acute 1; Aquatic Chronic 1; H400, H410 1310-58-3 TT2100000 215-181-3 7-13 NA NA NA (2) Acute Tox. Oral 4; Acute Tox. Inh. 4; H302, H332 7439-89-6 NO4565500 231-096-4 10-20 (5) NA NF Acute Tox. 4 *; Skin Corr. 1A; H302, H314 7782-42-5 MD9659600 231-955-3 3-7 (2.0) NA (2.0) 1333-86-4 FF5800000 215-609-9 3-7 (3.5) NA (3.5) 7439-92-1 OF7525000 231-100-4 0-0.1 (0.05) NA NF Acute Tox. 4; Acute Tox. 4; Repr. 1A; STOT RE 2; Aquatic Acute 1; Aquatic Chro 7440-43-9 NA 231-152-8 0-0.1 (0.01) NA NF Acute Tox. 2; Muta. 2; Carc. 1B; Repr. 2; STOT SE 1; Aq. Acute 1; Aq. Chronic 1 7439-97-6 OV4550000 231-106-7 0-0.1 NA NA (0.003)	CAS No. RTECS No. EINECS No. % TLV STEL TWA TSEL TWA TWA TSEL TWA TWA	CAS No. RTECS No. EINECS No. % TLV STEL TWA STEL PES ES PES PEAK	CAS No. RTECS No. EINECS No. % TLV STEL TWA STEL PEAK PEAK	CAS No. RTECS No. EINECS No. W TLV STEL TWA STEL PEAK PEL STEL	CAS No. RTECS No. EINECS No. % TLV STEL TWA STEL PEAK PEL STEL IDLH



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			4. FIRST AID MEASURES					
4.1	First Aid:	Ingestion: Give large quantities of water, but do NOT induce vomiting. Never give anything by mouth unconscious person. Contact the nearest Poison Control Center or local emergency telephone numb assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, victim's head lowered (forward) to reduce the risk of aspiration.						
		Eyes:	If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at lea holding eyelid(s) open to ensure complete flushing. If the eyes or face become swollen duri use, consult a physician or emergency room immediately.					
		<u>Skin</u> :	If an open battery cell: Remove contaminated clothing and wash affected areas with soap discomfort persists and/or the skin reaction worsens, contact a physician immediately. contaminated clothing until after it has been properly cleaned.	and water. Do not we	. If ear			
		Inhalation:	Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perespiration. Seek immediate medical attention.	rform artific	cial			
4.2	Effects of Exposure:	Ingestion:	May cause severe irritation of mouth, throat, esophagus, and stomach. Acute inge compounds may cause abdominal pain, nausea, vomiting, diarrhea, and severe cramping.	estion of zi	inc			
		Eyes:	Severe irritation, burns, cornea damage, blindness. Lead compounds may cause irritation.					
		Skin:	Severe irritation, burns, and ulceration if open battery cell comes into contact with skin.					
		Inhalation:	Inhalation of lead dust or fumes may cause irritation of upper respiratory tract and lungs.					
4.3	Symptoms of Overexposure:	Ingestion:	Severe discomfort, nausea, vomiting and headache. Harmful if swallowed. May cause permanent tissue destruction of the esophagus and digestive tract.	corrosion a	and			
		Eyes:	May cause irreversible eye injury. Contact with eyes may cause severe irritation, and poss Severe irritation, redness, and watering,.					
		Skin:	Severe skin irritation, red, itching skin, burns and ulceration, if open battery cell comes in skin.	to contact w	with			
		Inhalation:	May cause cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood) lead to chemical pneumonitis and pulmonary edema. Inhalation of fumes may cause me which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness the property of	tal fume fevess, chest pa	ver, ain,			
4.4	Acute Health Effects:		muscle pain and increased white blood cell count. Causes respiratory tract irritation with posexposure can occur only when product is heated above the melting point, oxidized or otherwise create dust, vapor, or fume.					
4.5	Chronic Health Effects:		osure may cause effects similar to those of acute exposure.					
4.6	Target Organs:		Respiratory System, Central Nervous System (CNS)					
4.7	Medical Conditions	NA	HEALTH	1				
	Aggravated by Exposure:		FLAMMABILITY	0				
			PHYSICAL HAZARDS	0				
				В				
			PROTECTIVE EQUIPMENT EYES SKIN	<u> B</u>				
			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					
			5. FIREFIGHTING MEASURES					
5.1	Fire & Explosion Hazards:		al can burn but will not readily ignite. However, if involved in a fire, this product may at high temperatures to form toxic gases (e.g., CO, CO _x , Hydrocarbons).					
5.2	Extinguishing Methods:	CO ₂ , Dry Ch	nemical, Alcohol foam, Dry Chemical. Use water spray to cool containers.					
5.3	Firefighting Procedures:	containers. I chemical, ca quantities of sewers, dra gear includi	uishing media most appropriate for the surrounding fire. Do NOT get water inside For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use dry arbon dioxide, alcohol-resistant foam, or water spray. Cool containers with flooding f water until well after fire is out. Prevent runoff from fire control or dilution from entering ins, drinking water supply, or any natural waterway. Firefighters must use full bunker ing NIOSH-approved positive pressure self-contained breathing apparatus to protect ential hazardous combustion or decomposition products and oxygen deficiencies.	100	<u> </u>			
			6. ACCIDENTAL RELEASE MEASURES					
6.1	Spills:	Equipment, chemical-res Small Spills material suc Large Spills immediate h	ning any spill or leak, individuals involved in spill cleanup must wear appropriate Person including protective gloves and eyewear. Plastic or rubber gloves, respirator, eye/face sistant apron may be required for clean-up of large spills. Wear appropriate protective equipment including gloves and protective eyewear. Use a not has vermiculite or sand to soak up the product and place into a container for later disposal. Keep incompatible materials away from spill. Stay upwind and away from spill or release if it can be done.	protection a on-combusti lease. Isola ne with minir	and tible late mal			
		risk. Wear resistant cor	appropriate protective equipment including respiratory protection as conditions warrant. Cntainer.	ollect in ac	cia-			



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	Lw	7. HANDLIN									
7.1	Work & Hygiene Practices: Storage & Handling:	Do not eat, drink or smoke when handling this product. Handle as to avoid puncturing container(s). Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct 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	Special Precautions:	cool and constant temperature. This battery is not designed cases. Inadvertent charging of will not seriously affect the basafety release vent to open. covered tables or metal belts	for recharg can happer attery. But Sources of	n if a ba prolong f short o	attery is in ed short c circuit incl	stalled ba ircuit will o ude jumble	ckwards. A cause the bed ed batterie	Accident pattery to	al short lose e	circuit finergy, a	for a few seconds and can cause the
		8. EXPOSURE CO	NTROL	S &	PERSO	DNAL I	PROTE	CTIO	N		
8.1	Exposure Limits:		ACC	SIH		NOHSC	1		OSHA	1	OTHER
	ppm (mg/m³)	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
8.2	Ventilation & Engineering Controls:	MERCURY General mechanical (e.g., far exhaust ventilation to effective product. Ensure appropriate of the second	ely remov	e and	prevent bu	uildup of v	apors or	mist ger	nerated	from th	e handling of this
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. product. Always use protect protection tested and approve 166(EU).	ive eyewe	ar whe	n cleaning	spills or	leaks. Us	se equip	ment fo	or eye	
8.5	Hand Protection:	Where contact is likely, imperv When handling large quantitie									
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.									
		0 511/0104					DTIES				
	T	9. PHYSICA	AL & C	HEMI	ICAL P	ROPE	RHES				
9.1	Appearance:	Cylindrical battery					_				
9.2	Odor:	No apparent odor (sealed). Ma	anganese o	dioxide/	zinc powd	er is black	/grey (brok	en).			
9.3	Odor Threshold:	NA									
9.4	pH:	NA									
9.5	Melting Point/Freezing Point:	NA								-	
9.6	Initial Boiling Point/Boiling	NA									
0.7	Range:										
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: Insolul	ole.								
9.13	Partition Coefficient (log Pow):	NA									
9.14	Autoignition Temperature:	NA					_				
9.15	Decomposition Temperature:	NA									
9.16	Viscosity:	NA NA									
9.17	Other Information:	NA									



Quantity:

(RQ):

TSCA Inventory Status:

CERCLA Reportable Quantity

15.3

15.4

SAFETY DATA SHEET

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The components of this product are listed on the TSCA Inventory.

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:	Mercury, Lead and Cadmium are listed as Hazardous Air Pollutants (HAPs) under the Clean Air Act (CAA). Zinc,					
		Cadmium and Mercury are listed as Priority Pollutants under the Clean Water Act (CWA). Zinc, Lead, Cadmium and Mercury are listed as Toxic Pollutants under the CWA. This product does not contain any Class 1 or Class 2 ozone depletors.					
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the Safety Data Sheet contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS D2B (Other Toxic Effects)					
15.7	State Regulatory Information: Other Requirements:	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 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(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. The primary component of this product is listed in Annex I of EU Directive 67/548/EEC:					
		Corrosive (C); Environmental Danger (N). Risk Phrases (R): 22-34-50/53 – Harmful if swallowed. Causes burns. Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment. Safety Phrases (S): 1/2-26-36/37/39-45-60-61 – Keep locked up and out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing/ gloves and eye/face protection. In case of accident or if you feel unwell seek medical advice immediately (show label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/SDS.					
		16. OTHER INFORMATION					
16.1	Other Information:						
10.1	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. P280 – 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					

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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

DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number		
EXPOSURE	LIMITS IN AIR:		
ACGIH	American Conference on Governmental Industrial Hygienists		
С	Ceiling Limit		
ES	Exposure Standard (Australia)		
IDLH	Immediately Dangerous to Life and Health		
OSHA	U.S. Occupational Safety and Health Administration		
PEL	Permissible Exposure Limit		
STEL	Short-Term Exposure Limit		
TLV	Threshold Limit Value		
TWA	Time Weighted Average		

FIRST AID MEASURES:

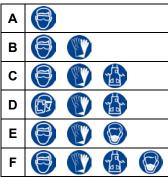
Cardiopulmonary resuscitation - method in which a person whose heart has CPR stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.

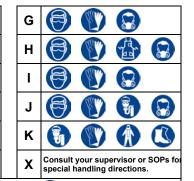
HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard



PERSONAL PROTECTION RATINGS:







Splash Goggles



Cy Face Shield & **Protective Eyewear**







Protective Clothing & Full Suit

Dust Respirator

Full Face Respirator



Mask Respirator



Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

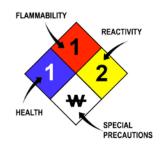
ML	Maximum Limit		
mg/m3	milligrams per cubic meter		
NA	Not Available		
ND	Not Determined		
NE	Not Established		
NF	Not Found		
NR	No Results		
ppm	parts per million		
SCBA	Self-Contained Breathing Apparatus		

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:							
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition						
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source						
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source						

HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
W	Use No Water
ох	Oxidizer
TREFOIL	Radioactive
TOVICOLO	OLOAL INFORMATION



TOXICOLOGICAL INFORMATION:

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

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System			
DOT	U.S. Department of Transportation			
TC	Transport Canada			
EPA	PA 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	WGK Wassergefährdungsklassen (German Water Hazard Class)			
HMIS-III	National Paint & Coatings Association Hazardous Materials Identification System			

WORKELACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

WORLD EAST IN EACH OF THE CONTROL OF								
0	(*)	(2)		\odot	(4)			
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:

That I		M	*			X	X
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

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