## SAFETY DATA SHEET

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Prena	ared to OSHA ACC ANSL N	OHSC WHMIS 2	001/58 & 1272/20	08/EC Standar	de		SDS	Revisio	n · 1 1	SDS	Revisio	n Date:	7/25/2015
Ттера			001/30 d 12/2/20		43		000	11011310	11. 1.1	000	11611310	in Date.	1123/2013
		4						-10 4	TION				
	1	1. 1	PRODUC		PANY	IDE			TION				
1.1	Product Name:	CR2016 L	ITHIUM E	BUTTON	CELL	BA1	TEF	RIES					
1.2	Chemical Name:	Lithium Manga	nese Dioxide E	Batterv									
1.3	Synonyms:	P/N 68131											
1.4	Trade Names:	Thunderbolt M	aanum										
1.5	Product Uses & Restrictions:	Battery	agiiaiii										
1.6	Distributor's Name:	or's Name: Harbor Freight Tools, Inc.											
1.7	Distributor's Address:	26541 Agoura	Road Calaba	sas CA 9130	2 USA								
1.8	Emergency Phone:	CHEMTRE	(702)	527_2997 /	11 /000	1 1 2	020		N 6766	97)			
10	Business Phone / Eav:		$5. \pm 1(703)$	521-50011	+1 (000	) 424	-320		N 0700	07)			
1.5	Dusiness i none / i ax.	+1 (600) 423-2	.507										
			0 114	740001	DENT		A T1/	211					
		I	2. HA	ZARDS I	DENI	IFIC		JN					
2.1	Hazard Identification:	This product according to the	is classified a ne classification	as a HAZARI	DOUS SI DHSC: 10	JBSTA 08 (20	ANCE 04) an	and a d ADG	s DANG Code (A	EROUS ustralia).	GOOD	S	
		If handled pro unlikely under if device is cru may cause da inhaled. Pleas	perly, there are normal conditi ushed, or comp mage to eyes se strictly obset	no known ser ons as the bar oromised in a & skin tissue rve safety inst	rious heal ttery is he fire, cont as well a ructions.	th risks rmetic act wit is the	s. Inha ally se h the l nose,	alation, aled w ithium throat,	absorption within the of metal bar lungs &	on & inge device. H ttery and respirator	stion ai loweve materi y tract	re er, al if	•
		<u>The following</u> <u>compromised</u> hermetically so	statements a (e.g., opened ealed device w	pply to the , crushed, p hich has not b	contents unctured	of the	<u>e lithiu</u> ese s r comp	<u>m mei</u> tateme	<u>tal batter</u> ents do r ed.	<u>y if it han the poly</u>	as bee / to th	en ie	
		DANGER! C SPONTANEO HARMFUL IF	ONTACT WITH USLY. CAU SWALLOWED	I WATER RE SES SEVER ).	LEASES E SKIN	FLAN	IMABL NS AN	LE GA	SES WHI E DAMA	CH MAY Age. N	IGNIT IAY B	E	X
		Hazard Staten spontaneously	<u>nents</u> (H): H26 ⁄. H314 - Cau	60 - In contact ses severe sl	with wate	er relea and e	ases fl ye dar	ammal nage.	ole gases EU014 -	which m - Reacts	ay igni violent	te Iy	E
		vith water. <u>Precautionary</u> of violent rea thoroughly wi protection/face vomiting. P31 case of fire: Powder for ex Dispose of con	with water. <u>Precautionary Statements</u> (P): P223 – Keep away from any possible contact with water, because of violent reaction and possible flash fire. P264 – Wash hands and exposed skin surfaces thoroughly with warm water and soap after handling. P280 – Wear protective gloves/eye protection/face protection. P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P310 – Immediately call a Poison Control Center or doctor/physician. P370+P378 – In case of fire: Use Lith-X powder, Class D fire extinguisher, Dry Lithium Chloride, or Graphite Powder for extinction. P402+P404 – Store in a dry place. Store in a closed container. P501 –										
		3. CC	MPOSITI	ON & INC	GREDI	ENT	' INF	OR	ΜΑΤΙΟ	N			
									EXPOSU	RE LIMITS I	N AIR (m	g/m³)	
						AC	GIH		NOHSC		OSHA		
						pp	om	50	ppm		ppm	1	
CHEMI	CAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL PE	AK PEL	STEL	IDLH	OTHER
MANG		1313-13-9	OP0350000	215-202-6	15-40	(5)	NA	(5)	NF N	F (5)	NA	NA	
		Acute Tox. Ora	I 4; Acute Tox. In	h. 4; H302, H33	32	1	1				1		
1.2-DI	METHOXYETHANE	110-71-4	KI1451000	NA	3-7	3	NA	3	NF N	F NA	NA	NA	
,		440.44.0	10/1005000	004 400 0	4.5	(10)	N1.4	(10)					
		116-14-3	KX4025000	204-126-9	1-5	(10)	NA	(10)	NF N	F (15)	NA	NA	
(IEFL		7/30 03 2	0 15540000	231 102 5	1.5	ΝΛ	ΝΔ	NE			ΝΑ	ΝΔ	[
LITHIU	JM METAL	Water React 1:	Skin Corr 1B H	260 H314	1-5	ΝA	INA	INF		F INA	INA	N/A	
		1333-86-4	FF5800000	215-609-9	0.5-2.5	(3.5)	NA	(3.5)	NF N	F (3.5)	NA	NA	
CARB	ON BLACK				0.0 2.0	(0.0)		(0.0)	N	(0.0)			
0000		108-32-7	FF9650000	203-572-1	1-5	NA	NA	NF	NF N	F NA	NA	NA	
PROP		Eye Irrit. 2B; H	319										
GRAD	HITE	7782-42-5	MD9659600	231-955-3	0.5-1.5	(2)	NA	(2)	NF N	F NA	NA	NA	
GRAP		Eye Irrit. 2; STO	OT SE 3; H319, H	1335			1						
LITHIL	JM PERCHLORATE	7791-03-9	NA	232-237-2	0.1-1	NA	NA	NF	NF N	F NA	NA	NA	
		UX. SOI. 2; Skir	i irrit. 2; Eye Irrit.	28; STOT SE 3	, H272, H3	15, H3'	19, H33	C					

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			4. FIRST AID MEASURES							
4.1	First Aid:	Device is he Ingestion:	rmetically sealed. Exposure to lithium battery component is Swallowing a battery can be harmful. 3 volt lithium coin removed immediately. Leakage, chemical burns and poingestion. Seek medical attention immediately. Have physi HOTLINE for advice and follow-up at +1 (202) 625-3333 cc	not expected under normal co batteries lodged in the esop otential perforation can occu cian call the NATIONAL BATT ollect day or night.	nditions of use. bhagus should be r within hours of ERY INGESTION					
		<u>Eyes</u> :	Contents of an open battery can cause severe irritation. S in the eyes, flush with copious amounts of lukewarm water	Splashes are not likely; howev seek immediate medical atten	er, if product gets tion.					
		<u>Skin</u> :	Contents of an open battery can cause skin irritation. Re areas. Wash thoroughly with soap and water.	emove contaminated clothing	and flush affected					
		Inhalation:	Remove victim to fresh air at once. If breathing is diffic artificial respiration. Keep person warm, quiet and get mec	ult, administer oxygen. If bre dical attention.	eathing stops give					
4.2	Effects of Exposure:	Ingestion:	Not anticipated under normal handling and use. Irritation following exposure to leaking battery.	to the internal/external mout	h area may occur					
		<u>Eyes</u> :	irritation may occur following exposure to leaking battery.							
		Skin:         Not anticipated under normal handling and use. Irritation may occur following exposure to leaking battery.           Inhalation:         Not anticipated. Respiratory irritation may occur if fumes are released due to an abundance of leaking batteries.								
4.3	Symptoms of Overexposure:	Ingestion:	Not anticipated. Irritation may occur following exposure to	leaking battery.						
		to a leaking battery.								
		<u>Skin</u> :	Not anticipated. Irritation may occur following exposion overexposure may include redness, itching, and irritation or	sure to leaking battery. S f affected areas.	ymptoms of skin					
		Inhalation: Not anticipated. Respiratory irritation may occur if fumes are released due to heat or an abundance leaking batteries. Respiratory irritation, headache, irritability may occur if fumes are released due to hor an abundance of leaking batteries.								
4.4	Acute Health Effects:	Non-irritating when used as directed. No acute health effects reported by the manufacturer.								
4.5	Chronic Health Effects:	Non-irritating	Non-irritating when used as directed. No chronic health effects reported by the manufacturer.							
4.6	Target Organs:	The manufac	cturer has not reported specific data.							
4.7	Aggravated by Exposure:	An initial x-	ray should be obtained promptly to determine battery	HEALTH	1					
		immediately	since leakage, burns and perforation can occur as soon as	FLAMMABILITY	0					
		4-6 hours aft	er ingestion.	PHYSICAL HAZARDS	1					
				PROTECTIVE EQUIPME	NT B					
			5. FIREFIGHTING MEASURES							
5.1	Fire & Explosion Hazards: Extinguishing Methods: Firefighting Procedures:	As with an decomposition in the batter they may rup it to react out together. In a Class D fire lithium batte react with wa mixture. In t burning lithiu Burning lithiu Burning lithiu Lith-X-Powdd Not flammat department. generated by DO NOT US hydrogen ga until well afte Fight fire up water supply approved po combustion of	<b>D. FIREFIGITING MEASURES</b> If ite, wear self-contained breathing apparatus to avoid on products (See Section 2). Water will cool the fire but may ite sproducing flammable hydrogen. DO NOT RECHARGE. Dure when exposed to excessive heat. Rupture may expose of release flammable or corrosive materials. Do not accumulates are present, flood area to extinguisher appropriate for lithium metal, such as Lith-X rises can be controlled by flooding with water. However, the ater and form hydrogen gas. In a confined space, hydroger his situation, smothering agents are recommended. A smoorn batteries. Emergency Responders should wear self-corrum manganese dioxide batteries produce toxic and corrosive er, Class D Fire Extinguisher, Dry Lithium Chloride, Graphite ble under normal conditions. However, battery will burn if Cool exterior of battery if exposed to fire to prevent rupter / heat or fire are corrosive. E WATER, moist sand, CO <sub>2</sub> , class ABC or soda ash exting s may be evolved which can form an explosive mixture with the fire is out, do NOT use water. As in any fire, wear M eathing apparatus (pressure-demand) and full protective g er the fire is out. Use water spray to cool fire-exposed surfawind. Prevent runoff from fire control or dilution from enter or, or any natural waterway. Firefighters must use full bur sitive pressure self-contained breathing apparatus to protect or decomposition products and oxygen deficiencies.	id inhalation of hazardous y react with available lithium As a typical sealed battery e lithium to moisture causing ulate undischarged batteries with water or smother with a c. Virtually all fires involving e contents of the battery will n gas can form an explosive thering agent will extinguish named breathing apparatus. e lithium hydroxide fumes. Powder. involved in a fire. Call fire ure. The electrolyte vapors uisher. When water is used th air. Keep containers cool MSHA/NIOSH approved self- lear. Keep containers cool ces and to protect personal. ring sewers, drains, drinking nker gear including NIOSH- t against potential hazardous						

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OTHER

Ensure appropriate

SAFETY DATA SHEET SDS Revision: 1.1 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 7/25/2015 6. ACCIDENTAL RELEASE MEASURES None under normal conditions. If the contents leak, observe the following instructions: Secure spill area and maximize Spills: ventilation. Stop spill or leak at source if safely possible. Deny entry to all unprotected individuals. Individuals involved in the cleanup must wear appropriate personal protective equipment to avoid breathing vapors or touching liquid. Recover or cover with inert absorbent material and place into appropriate container(s) for disposal. If in water remove if safe to do so. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers or any natural waterway or drinking supply. Spills are unlikely as the battery is enclosed hermetically sealed device. Keep spills and cleaning runoffs out of drains, municipal sewers and open bodies of water. 7. HANDLING & STORAGE INFORMATION Work & Hygiene Practices: DO NOT swallow, apply excessive force to the positive terminal, drop, weld the terminal or wire to the body of the battery directly, short-circuit the battery, charge, forcibly discharge, heat, expose to open flame, disassemble, reverse the positive and negative terminals when mounting, use different batteries together, touch any liquid that leaks from the battery, or hold the battery for an extended period. Storage & Handling: Keep battery away from water. Never store in hot or very humid place. Storage and handling areas should be equipped with proper containment to capture and neutralize spills. Special Precautions: Do not expose to excessive physical shock or vibration. Storage and use areas should be equipped with eyewash stations and safety showers 8. EXPOSURE CONTROLS & PERSONAL PROTECTION Exposure Limits: ACGIH NOHSC OSHA ppm (mg/m<sup>3</sup>) ES-ES-ESтιν STE PEAK STEI CHEMICAL NAME(S) STE TWA PEL וחו MANGANESE DIOXIDE (5) NA (5) NF NF (5) NA NA GRAPHITE NF (2) NA (2) NF NA NA NA CARBON BLACK (3.5) NA (3.5) NF NF (3.5) NA NA TEFLON (10) NA (10) NF NF (15) NA NA NA 1,2-DIMETHOXYETHANE NF NF 3 NA 3 NA NA Ventilation & Engineering General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Controls: decontamination equipment is available (e.g., sink, safety shower, eye-wash station). Upon completion of work activities involving large quantities of this product (fluid), wash any exposed areas thoroughly with soap and water. 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. Eye Protection: Avoid eye contact. Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this product. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants. Have suitable eve wash water available. Use equipment for eve protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Hand Protection: Use gloves constructed of chemical-resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, or the EU member states. Do not wear rings, watches or jewelry that could entrap the material against the skin. Body Protection: No apron required when handling sealed undamaged battery. Where contact is likely corrosiveresistant apron, clothing and boots. Protective clothing, if used, should include long-sleeves, apron, boots and additional facial protection. If necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA. 9. PHYSICAL & CHEMICAL PROPERTIES Appearance: Hermetically sealed, metallic article. Odor: None for sealed device. Odor Threshold: NA pH: NA Melting Point/Freezing Point: NA Initial Boiling Point/Boiling NA Range: Flashpoint NA Upper/Lower Flammability NA Limits: Vapor Pressure: NA Vapor Density: NA Relative Density: 2.0-3.0 Solubility: Insoluble Partition Coefficient (log Pow): NA Autoignition Temperature: NA

9.15 Decomposition Temperature:

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# 9. PHYSICAL & CHEMICAL PROPERTIES – cont'd

9.16	Viscosity:	NA	
9.17	Other Information:	NA	
		10. STABILITY & REACTIVITY	
10.1	Stability:	Stable under normal conditions; unstable with heat or contamination or if broken or leaking.	
10.2	Hazardous Decomposition	Sulfur dioxide, hydrogen chloride, hydrogen	
10.3	Products: Hazardous Polymerization:		
10.4	Conditions to Avoid:	Prolonged overcharge: sources of ignition Excessive physical shock and vibration Contra	act with organic materials
		combustibles, strong reducing agents, strong oxidizers and humidity.	dot with organic materials,
10.5	Incompatible Substances:	Contact with organic materials, strong reducing agents, strong oxidizers, water and excessive	humidity.
			·
		11. TOXICOLOGICAL INFORMATION	
11.1	Routes of Entry:	Inhalation: NO Absorption: NO	Ingestion: YES
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, fou	nd 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): > 3,478 mg/kg;	
		1,2-Dimethoxyethane: LD <sub>Lo</sub> (oral, rat): 1,000 mg/kg, LC <sub>Lo</sub> (inh-6h, rat): 63 g/m <sup>o</sup>	$h rot > E a/m^3$
11.3	Acute Toxicity:	$\frac{1}{20}$	n, rai). > 5 y/m
11.4	Chronic Toxicity:	See Section 4.5	
11.5	Suspected Carcinogen:	Carbon Black is listed as IARC Group 2B (Possibly carcinogenic to humans): CA65 (cancer)	
11.6	Reproductive Toxicity:	This product is not reported to produce 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 is not reported to cause reproductive effects in humans.	
11.7	Irritancy of Product:	See Section 4.3	
11.8	Biological Exposure Indices:	NE	
11.9	Physician Recommendations:	Treat symptomatically.	
	I	12. ECOLOGICAL INFORMATION	
12.1	Environmental Stability:	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:	I here are no specific data available for this product.	
10.1		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	
The	basic description (ID Nun	nber, proper shipping name, hazard class & division, packing group) is shown for each mode of	transportation. Additional
14.1	49 CFR (GND):		umus acta activat
		UN3090, LITHIUM METAL BATTERIES, 9, II (NET WGT $\leq$ 5.0 kg)	
14.2	IATA (AIR):	UN3090, LITHIUM METAL BATTERIES, 9, II – FORBIDDEN FOR TRANSPORT ABOARD PASSENGER AIRCRAFT. See Section II of Packing Instruction 968. *	
14.3	IMDG (OCN):	UN3090, LITHIUM METAL BATTERIES, 9, II (NET WGT ≤ 5.0 kg) See IMDG Code Special Provision 188	<ul> <li>Introduction and the sector sec</li></ul>
14.4	TDGR (Canadian GND):	UN3090, LITHIUM METAL BATTERIES, 9, II (NET WGT ≤ 5.0 kg)	- B - Littere etta, satteres - randoza van Rusariout - anner ettale satteres - anner ettale satteres - anner -
14.5	ADR/RID (EU):	UN3090, LITHIUM METAL BATTERIES, 9, II (NET WGT ≤ 5.0 kg)	1 80 A
14.6	SCT (MEXICO):	UN3090, BATERIAS DE LITIA, 9, II (NET WGT ≤ 5.0 kg)	1 <b>B</b> A
14.7	ADGR (AUS):	UN3090, LITHIUM METAL BATTERIES, 9, II (NET WGT ≤ 5.0 kg)	1 0 A
* Eac	h package must be labeled	with a Cargo Aircraft Only label in addition to the lithium battery handling label. Additional marking is requ	ired for lithium metal batteries
LITH	IUM METAL BATTERIES AF	RE FORBIDDEN FOR TRANSPORT ABOARD PASSENGER AIRCRAFT	

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		15. REGULATORY I	NFORMATION
15.1	SARA Reporting Requirements:	This product does not contain any substances sul	bject to SARA Title III, Section 313 reporting requirements.
15.2	SARA Threshold Planning	There are no specific Threshold Planning Quantit	ies 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	NA	
15.5	Other Federal Requirements:	Manganese (and its compounds) is listed as a Ha as Toxic Pollutants under the Clean Water Act (C Clean Water Act (CWA). This product does not c	izardous Air Pollutant (HAP). Manganese (and its compounds) is listed WA). None of the ingredients are listed as Priority Pollutants under the ontain any Class 1 or Class 2 ozone depletors.
15.6	Other Canadian Regulations:	This product has been classified according to Regulations (CPR) and the SDS contains all components of this product are listed on the DS are listed on the Priorities Substances List. WHM	the hazard criteria of the Controlled Products of the information required by the CPR. The L/NDSL. None of the components of this product IIS D2B (Other Toxic Effects)
15.7	State Regulatory Information:	Carbon Black is listed in the following state crite Substances List (MA), Minnesota Hazardous Pennsylvania Right-to-Know List (PA).	eria lists: California Proposition 65 (CA65), Massachusetts Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), and
		Lithium is found on the following state criteria lists	s: FL, MA, NJ and PA.
		Propylene Carbonate is found on the following sta	ate criteria lists: NJ and PA.
		<u>1,2-Dimetnoxyetnane</u> is found on the following sta No other ingredients in this product, present in a criteria lists: California Proposition 65 (CA65), I List (FL), Massachusetts Hazardous Substances Substances List (MN), New Jersey Right-to-Kno Right-to-Know List (PA), Washington Permissible	ate criteria lists: FL, MA and PA. concentration of 1.0% or greater, are listed on any of the following state Delaware Air Quality Management List (DE), Florida Toxic Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous w List (NJ), New York Hazardous Substances List (NY), Pennsylvania Exposures List (WA), Wisconsin Hazardous Substances List (WI).
		<b>WARNING:</b> This product contains a substance(s) reproductive harm. California law requires this wa	) known to the State of California to cause cancer, birth detects or other arring be given to customers in the State of California
		<b>NOTE</b> : Perchlorate Material - special handling ma	ay apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate.
15.8	Other Requirements:	The primary components of this product are not lis Harmful (Xn). <u>Risk Phrases</u> (R): 65 – Harmfu <u>Phrases</u> (S): 2-62 - Keep away from children. It advice immediately and show this container or lab	sted in Annex I of EU Directive 67/548/EEC: Il may cause lung damage if swallowed. <u>Safety</u> f swallowed, do not induce vomiting: seek medical pel where possible
		16. OTHER INFO	DRMATION
16.1	Other Information:	DANGER: IN CONTACT WITH WATER RELEAS CAUSES SEVERE SKIN BURNS AND EYE DA possible contact with water, because of violent re thoroughly with warm water and soap after h. SWALLOWED: Rinse mouth. Do NOT induce vo In case of fire: Use Lith-X powder, Class D fire P402+P404 – Store in a dry place. Store in a clos WARNING: This product contains a substance(s) reproductive harm	SES FLAMMABLE GASES WHICH MAY IGNITE SPONTANEOUSLY. MAGE. MAY BE HARMFUL IF SWALLOWED. Keep away from any eaction and possible flash fire. Wash hands and exposed skin surfaces andling. Wear protective gloves/eye protection/face protection. IF omiting. Immediately call a Poison Control Center or doctor/physician. extinguisher, Dry Lithium Chloride, or Graphite Powder for extinction. sed container. KEEP OUT OF THE REACH OF CHILDREN.
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to C government regulations must be reviewed for ap Tools USA, Inc.'s knowledge, the information accuracy, suitability or completeness is not guar provided. The information contained herein rela other materials, all component properties must l consult the latest edition.	OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other oplicability to this product. To the best of ShipMate's & Harbor Freight contained herein is reliable and accurate as of this date; however, anteed and no warranties of any type, either expressed or implied, are ites only to the specific product(s). If this product(s) is combined with be considered. Data may be changed from time to time. Be sure to
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/	HARBOR FREIGHT TOOLS Quality Tools at Ridiculously Low Prices
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	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	FASURES.								

#### 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	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:

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

Α						G		(EV		3	
в						н				は、国	
С	0		花道			I	0	(I)			
D	B		花道			J	0	(I)		<b>B</b> I	8
Е						к	3			Å	
F			は、国			X	Consult special I	your su handling	ıpervi g dire	sor or ctions	SOPs f
Sa	fety Glass	es Sp	olash G	oggles	F	Face	Shield &	ear		Glove	s
	Boots	Sy	nthetic	c Apron	F	Protect &	tive Cloth	ing	Dus	t Resp	birator
			8	8						Î	
Full I	Face Respi	rator Dus Ma	st&Va askRe	por Half- spirator		Fi Re	III Face		Airlin	e Hoo or SCE	d/Mask 3A
отн	ER STAN	DARD AB	BREV	IATION	S:						
	ML	Maximum	Limit								
	mg/m3	milligrams	per cu	bic meter							
	NA	Not Availa	ble								
	ND	Not Determ	nined								
	NE	Not Establ	ished								
	NF	Not Found									
	NR	No Results	6								

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	RATING	S:																																		
	0 Minima	al Haza	ard	rd FLAMMABILITY																																
	1 Slight I	Hazaro	ł								REAC	TIVITY																								
	2 Moder	ate Ha	zard						X	1	/	-																								
	3 Severe	e Haza	rd																																	
	4 Extrem	ne Haz	ard					/	1		<b>)</b> `																									
ACI	D Acidic																																			
ALI	K Alkalin	е							$\checkmark$		/																									
CO	R Corros	ive		/ ₩ /																																
¥	VUse No	o Wate	er				HE	ALT	H /	X		1000																								
0	X Oxidize	er								~	SPE																									
TREFO	L Radioa	active									PRE	CAUTIONS																								
TOXICOL	OGICAL	INFO	RMAT	ION:																																
	l	D <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s																																	
	L	.C <sub>50</sub>	Lethal concentration (gases) which kills 50% of the exposed animal																																	
	F	opm	Concentration expressed in parts of material per million parts																																	
			Lowest dose to cause a symptom																																	
	Т	CLo	I owest concentration to cause a symptom																																	
TD	LD <sub>10</sub> , & I F	), or	Lowest dose (or concentration) to cause lethal or toxic effects																																	
TC, TC	Co, LCIo, &	LC。					,																													
	14	RC	Interna	tional A	gency	for R	esearc	h on	Cancer																											
	1	NTP	Nationa	al Toxico	oloav	Proar	am																													
	RTE	cs	Registry of Toxic Effects of Chemical Substances																																	
		BCF	Biocon	centratio	on Fa	ctor			Stark																											
		TI	Median threshold limit																																	
	( or log	K																																		
REGULA		FORM	ATIO	N:																																
WHMI	S Canad	ian Wo	orkplace	Hazaro	lous I	Aateri	al Infori	matio	on Syster	n																										
DO	T U.S. D	epartn	nent of	Franspo	rtatior	۱																														
т	C Transp	ort Ca	inada																																	
EP	A U.S. E	nviron	Imental Protection Agency																																	
DS	L Canad	ian Do	omestic Substance List																																	
NOHS	C Nation	al Occ	cupational Health and Safety Commission (Australia)																																	
NDS	L Canad	ian No	on-Domestic Substance List																																	
PS	L Canad	ian Pri	riority Substances List																																	
TSC	A U.S. T	oxic Sı	bstance Control Act																																	
E	U Europe	ean Ur	nion (European Union Directive 67/548/EEC)																																	
WG	K Wasse	rgefäh	nrdungsklassen (German Water Hazard Class)																																	
HMIS-I	II Nation	al Pair	nt & Coa	tings As	ssocia	tion H	lazardo	ous N	<b>Aaterials</b>	Identifica	tion \$	System																								
WORKPL	ACE HA	ZARD	ous I	MATER	RIAL	S IDE	INTIF	CA	TION (V	VHMIS)	SYS	STEM:																								
$\bigcirc$	۲	(	٥	(Jacobia)	$\mathbf{b}$	Ć	1		Ţ		1	L.M.	)	Ŕ																						
Class A	Class B	С	lass C	Class	D1	Clas	ss D2	CI	ass D3	Class E		Class F																								
Compressed	Flammable	0>	kidizing	Тох	ic	Irrit	Irritation		ectious	Corrosive		Reactive																								
EC (67/54	8/EEC) I	NFOF	RMATI	ON:																																
			R	¥	¥_		8		0		0		•		•		0		0		0		0		0		0		•		0			×		×
C E			F	N			0	т		Xi		Xn																								
Corrosive	Explosive	Fla	mmable	Harn	nful	Oxi	dizing		Toxic	Irritant		Harmful																								
CLP/GHS	6 (1272/20	008/E	C) PIC	TOGR	AMS																															
			><	$\Rightarrow$	Red.	i sel	<b>G</b>	d D	<b>(!</b> )																											
GHS01	GHS02	GHS	13 0	SHS04	GH	\$05	GHS	16	CH807	CHS	08	CHS00																								

Harmful

Irritating

Flammable

Explosive

Oxidizer

Pressurized

Corrosive

Toxic

Health

Hazard

Environmer