SAFETY DATA SHEET

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SDS Revision: 1.1 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 7/25/2015 1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: CR2032 LITHIUM BUTTON CELL BATTERIES 12 Chemical Name Lithium Manganese Dioxide Battery 1.3 Synonyms P/N 68129 14 Trade Names Thunderbolt Magnum 15 Product Uses & Restrictions Battery Harbor Freight Tools, Inc. 1.6 Distributor's Name 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) 19 Business Phone / Fax: +1 (800) 423-2567 2. HAZARDS IDENTIFICATION Hazard Identification: 21 This product is classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS according to the classification criteria of NOHSC: 1008 (2004) and ADG Code (Australia). If handled properly, there are no known serious health risks. Inhalation, absorption & ingestion are unlikely under normal conditions as the battery is hermetically sealed within the device. However, if device is crushed, or compromised in a fire, contact with the lithium metal battery and material may cause damage to eyes & skin tissue as well as the nose, throat, lungs & respiratory tract if inhaled. Please strictly observe safety instructions. The following statements apply to the contents of the lithium metal battery if it has been compromised (e.g., opened, crushed, punctured). These statements do not apply to the hermetically sealed device which has not been damaged or compromised. DANGER! CONTACT WITH WATER RELEASES FLAMMABLE GASES WHICH MAY IGNITE SPONTANEOUSLY. CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY BE HARMFUL IF SWALLOWED. Hazard Statements (H): H260 - In contact with water releases flammable gases which may ignite spontaneously. H314 - Causes severe skin burns and eye damage. EU014 - Reacts violently with water Precautionary Statements (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 -Dispose of contents through a licensed treatment, storage, disposal facility (TSDF) 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA maa ppm ppm ES-ES-ES-RTECS No. TLV STEL PEAK PEL STEL IDLH CHEMICAL NAME(S) CAS No. EINECS No. % TWA STEL OTHER 1313-13-9 OP0350000 215-202-6 15-40 NA NA (5) NF NF (5) NA (5) MANGANESE DIOXIDE Acute Tox. Oral 4; Acute Tox. Inh. 4; H302, H332 110-71-4 KI1451000 NA 3-7 3 NA 3 NF NF NA NA NA **12-DIMETHOXYETHANE** TETRAFLUOROETHYLENE 116-14-3 KX4025000 204-126-9 1-5 (10) NA (10) NF NF (15) NA NA (TEELON) 7439-93-2 OJ5540000 231-102-5 1-5 NA NA NF NF NF NA NA NA LITHIUM METAL Water React 1; Skin Corr. 1B; H260, H314 FF5800000 215-609-9 NF NA 1333-86-4 0 5-2 5 (3.5) NA (3.5)NF (3.5) NA CARBON BLACK FF9650000 NA NF NF 108-32-7 203-572-1 1-5 NA NF NA NA NA PROPYLENE CARBONATE Eye Irrit. 2B; H319 MD9659600 231-955-3 0.5-1.5 NA NF NA NA 7782-42-5 (2)(2)NF NA GRAPHITE Eye Irrit. 2; STOT SE 3; H319, H335 7791-03-9 NA 232-237-2 0.1-1 NA NA NF NF NF NA NA NA LITHIUM PERCHLORATE Ox. Sol. 2; Skin Irrit. 2; Eye Irrit. 2B; STOT SE 3; H272, H315, H319, H335

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		-	4. FIRST AID MEASURES	
4.1	First Aid:		metically sealed. Exposure to lithium battery component is	
			Swallowing a battery can be harmful. 3 volt lithium coir removed immediately. Leakage, chemical burns and p ingestion. Seek medical attention immediately. Have phys HOTLINE for advice and follow-up at +1 (202) 625-3333 c	otential perforation can occur within hours of ician call the NATIONAL BATTERY INGESTION
		Eyes:	Contents of an open battery can cause severe irritation. in the eyes, flush with copious amounts of lukewarm water	Splashes are not likely; however, if product gets
		<u>Skin</u> :	Contents of an open battery can cause skin irritation. R areas. Wash thoroughly with soap and water.	
		Inhalation:	Remove victim to fresh air at once. If breathing is diffic artificial respiration. Keep person warm, quiet and get me	
4.2	Effects of Exposure:	_	Not anticipated under normal handling and use. Irritation following exposure to leaking battery.	
			Not anticipated under normal handling and use. If de irritation may occur following exposure to leaking battery.	
		Inhalation:	Not anticipated under normal handling and use. Irritation n Not anticipated. Respiratory irritation may occur if fume batteries.	
4.3	Symptoms of Overexposure:		Not anticipated. Irritation may occur following exposure to	leaking battery.
		Eyes:	Not anticipated. If device is damaged, eye and mucous n to a leaking battery.	
			Not anticipated. Irritation may occur following expo overexposure may include redness, itching, and irritation c	of affected areas.
			Not anticipated. Respiratory irritation may occur if fume leaking batteries. Respiratory irritation, headache, irritabi or an abundance of leaking batteries.	
4.4	Acute Health Effects:		when used as directed. No acute health effects reported b	v the manufacturer
4.5	Chronic Health Effects:		when used as directed. No chronic health effects reported	
4.6	Target Organs:	ů v	urer has not reported specific data.	
4.7	Medical Conditions	1	ay should be obtained promptly to determine battery	HEALTH 1
	Aggravated by Exposure:	location. Ba	tteries lodged in the esophagus should be removed	FLAMMABILITY 0
			ince leakage, burns and perforation can occur as soon as	PHYSICAL HAZARDS 1
		4-6 hours afte	ringestion.	PROTECTIVE EQUIPMENT B
			5. FIREFIGHTING MEASURES	
5.1	Fire & Explosion Hazards:	As with any	fire, wear self-contained breathing apparatus to avo	id inhalation of hazardous
5.2	Extinguishing Methods:	decomposition in the batterie they may rupt it to react or together. In ca Class D fire e lithium batterie react with wat mixture. In thi burning lithium Burning lithium	n products (See Section 2). Water will cool the fire but mates producing flammable hydrogen. DO NOT RECHARGE ure when exposed to excessive heat. Rupture may expose release flammable or corrosive materials. Do not accum ase of fire where lithium batteries are present, flood area extinguisher appropriate for lithium metal, such as Lith-> es can be controlled by flooding with water. However, there and form hydrogen gas. In a confined space, hydrogen is situation, smothering agents are recommended. A smoth batteries. Emergency Responders should wear self-con manganese dioxide batteries produce toxic and corrosive	y react with available lithium . As a typical sealed battery e lithium to moisture causing ulate undischarged batteries with water or smother with a K. Virtually all fires involving e contents of the battery will n gas can form an explosive othering agent will extinguish ntained breathing apparatus. e lithium hydroxide fumes.
5.2	Exanguishing wethous.	Not flammable department.	r, Class D Fire Extinguisher, Dry Lithium Chloride, Graphite e under normal conditions. However, battery will burn if Cool exterior of battery if exposed to fire to prevent rupt heat or fire are corrosive.	involved in a fire. Call fire
5.3	Firefighting Procedures:	hydrogen gas until well after contained bre until well after Fight fire upw water supply, approved posi	WATER, moist sand, CO ₂ , class ABC or soda ash exting may be evolved which can form an explosive mixture wi the fire is out, do NOT use water. As in any fire, wear N athing apparatus (pressure-demand) and full protective g the fire is out. Use water spray to cool fire-exposed surfa ind. Prevent runoff from fire control or dilution from ente or any natural waterway. Firefighters must use full bu tive pressure self-contained breathing apparatus to protect decomposition products and oxygen deficiencies.	th air. Keep containers cool MSHA/NIOSH approved self- gear. Keep containers cool aces and to protect personal. ring sewers, drains, drinking nker gear including NIOSH-

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		6. ACCIDEN	τΔι		=ASE			\$				
6.1	Spills:	None under normal conditions.							ions: Sec	ure snill	area and maximize	
		ventilation. Stop spill or leak at s										
		in the cleanup must wear appr										
		Recover or cover with inert abso										
		safe to do so. If necessary, dike								s or any	natural waterway or	
		drinking supply. Spills are unlike	iy as tri		y is encid	iseu nem	letically	sealeu u	evice.			
		7. HANDLING	& S	ORA	AGE IN	IFOR	MATIO	ON				
7.1	be not on another of the body of the ball											
	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										
7.2	Storage & Handling:	battery, or hold the battery for an extended period. Keep battery away from water. Never store in hot or very humid place. Storage and handling areas should be equipped										
	otologo a hanaling.	with proper containment to captu				γ nunnu p	nace. Ot	orage ar		iy aleas	Should be equipped	
7.3	Special Precautions:	Do not expose to excessive ph				n. Stora	de and i	use area	s should	be equi	pped with evewash	
		stations and safety showers.	,				go ana i		e eneura			
0.4	Fun equire Limiter	8. EXPOSURE CONT			PERS		. PRO	TECT			OTUER	
8.1	Exposure Limits: ppm (mg/m ³)		AC	GIH	ES-	NOHSC ES-	ES-		OSHA		OTHER	
		CHEMICAL NAME(S)	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH		
		MANGANESE DIOXIDE	(5)	NA	(5)	NF	NF	(5)	NA	NA		
			(2)	NA	(2)	NF	NF	NA (2.5)	NA	NA		
		CARBON BLACK TEFLON	(3.5) (10)	NA NA	(3.5) (10)	NF NF	NF NF	(3.5) (15)	NA NA	NA NA		
		1,2-DIMETHOXYETHANE	3	NA	3	NF	NF	(15) NA	NA	NA		
8.2	Ventilation & Engineering		-		-						Ensure appropriate	
	Controls:	General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Ensure appropriate 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.										
8.3	Respiratory Protection:		roduct	fluid), w	ash any	exposed	areas the	oroughly	with soap	and wa	ter.	
8.3	Respiratory Protection:	involving large quantities of this p No special respiratory protection instances where mist or vapors of	n is rec of this p	fluid), w uired u roduct a	vash any nder typi are gene	exposed cal circu rated, an	areas the mstance d respira	oroughly s of use itory prof	with soap or hand ection is	<u>o and wa</u> ling. In needed,	ter.	
8.3	Respiratory Protection:	involving large quantities of this p No special respiratory protection instances where mist or vapors use only protection authorized	n is rec of this p by 29	fluid), w uired u roduct a CFR §1	vash any nder typi are gener 910.134,	exposed cal circu rated, an applicat	areas the mstance d respira ole U.S.	oroughly s of use itory prof State re	with soar or hand ection is egulations	<u>and wa</u> ling. In needed, , or the	ter.	
8.3	Respiratory Protection:	involving large quantities of this p No special respiratory protection instances where mist or vapors of use only protection authorized Canadian CAS Standard Z94.4-	n is rec of this p by 29	fluid), w uired u roduct a CFR §1	vash any nder typi are gener 910.134,	exposed cal circu rated, an applicat	areas the mstance d respira ole U.S.	oroughly s of use itory prof State re	with soar or hand ection is egulations	<u>and wa</u> ling. In needed, , or the	ter.	
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8.3	Respiratory Protection: Eye Protection:	involving large quantities of this p No special respiratory protection instances where mist or vapors of use only protection authorized Canadian CAS Standard Z94.4- States, or Australia. Avoid eye contact. Wear protect	n is rec of this p by 29 0 93 and ive eye	fluid), w uired u roduct a CFR §1 applica wear (e.	vash any nder typi are gene 910.134, ble stand	exposed cal circu rated, and applicat dards of / glasses	areas the mstance d respira ble U.S. Canadia with side	s of use tory prot State re n Provin e-shield)	with soap or hand ection is egulations ces, EC at all time	o and wa ling. In needed, , or the member es when		
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8.4 8.5 8.6 9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 9.10 9.11	Eye Protection: Hand Protection: Body Protection: Body Protection: Odor: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density:	involving large quantities of this p No special respiratory protection instances where mist or vapors of use only protection authorized Canadian CAS Standard Z94.4- States, or Australia. Avoid eye contact. Wear protect handling this product. Contact concentrate irritants. Have suita tested and approved under appro Use gloves constructed of chem frequent or prolonged contact is appropriate standards of Canada that could entrap the material aga No apron required when handlin resistant apron, clothing and boo boots and additional facial protect member states, or U.S. OSHA. 9. PHYSICAL Hermetically sealed, metallic artice None for sealed device. NA NA NA NA NA NA NA NA NA NA NA NA NA	ive eye and is record by 29 of 93 and ive eye the lense able eye pariate of ical-res expecte a, or the ainst the rest ts. Pro- ttion. If i	fluid), w uired u roduct a CFR §1 applica wear (e. s pose wash overnm istant m d. If ne EU me skin. ed unda tective	vash any nder typi are gener 910.134, ble stand g., safety a spec water av ent stand haterials cessary, ember stand amaged t clothing, iry, refer t	exposed cal circu rated, an applicat dards of / glasses ial hazar ailable. lards suc such as r refer to L tes. Do pattery. if used, s to approp	areas the mstance d respira- ble U.S. Canadia with sid- rd; soft Use equ h as NIC heoprene J.S. OSH not wear Where c should in- vriate sta	oroughly s of use tory prof State re n Provin e-shield) lenses ipment f SH (US) e or heav A 29 CF r rings, w contact is clude lon ndards o	with soap or hand ection is gulations ces, EC at all tim- may abso or eye pi or EN 16 y nitrile xy nitrile & §1910. vatches of s likely co g-sleeves	and wa ling. In needed, , or the member es when orb and rotection 66(EU). rubber if 138, the r jewelry prrosive- s, apron,		

Decomposition Temperature:

9.15

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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 Products:	Sulfur dioxide, hydrogen chloride, hydrogen.	
10.3	Hazardous Polymerization:	Will not occur.	
10.4	Conditions to Avoid:	Prolonged overcharge; sources of ignition. Excessive physical shock and vibration. Contact	with organic materials,
		combustibles, strong reducing agents, strong oxidizers and humidity.	.
10.5	Incompatible Substances:	Contact with organic materials, strong reducing agents, strong oxidizers, water and excessive hur	nidity.
11.1	Routes of Entry:	11. TOXICOLOGICAL INFORMATION	gestion: YFS
11.1	Toxicity Data:		
11.2	TOXICITY Data.	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found available for some of the components of the product and is presented below:	in scientific literature, is
		Manganese Dioxide: LD ₅₀ (oral, rat): > 3,478 mg/kg;	
		<u>1,2-Dimethoxyethane</u> : LD _{Lo} (oral, rat): 1,000 mg/kg, LC _{Lo} (inh-6h, rat): 63 g/m ³	
		Propylene Carbonate: LD ₅₀ (oral, rat): 29,100 uL/kg; LD ₅₀ (dermal, rabbit):> 20 mL/kg; LC ₅₀ (inh, r	at): > 5 g/m ³
11.3	Acute Toxicity:	See Section 4.4.	
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: Embryotoxicity:	This product is not reported to produce mutagenic effects in humans. 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.	
		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:	There are no specific data available for this product.	
		13. DISPOSAL CONSIDERATIONS	
13.1	Waste Disposal:	Dispose of in accordance with federal, state, provincial and local regulations.	
13.2	Special Considerations:	NA	
		14. TRANSPORTATION INFORMATION	
		nber, proper shipping name, hazard class & division, packing group) is shown for each mode of tra e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.	insportation. Additional
14.1	49 CFR (GND):		Linuus atta, saturas -
	. ,	UN3090, LITHIUM METAL BATTERIES, 9, II (NET WGT ≤ 5.0 kg)	Consultation and Consul
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	Construction
14.4	TDGR (Canadian GND):	UN3090, LITHIUM METAL BATTERIES, 9, II (NET WGT ≤ 5.0 kg)	
14.5	ADR/RID (EU):	UN3090, LITHIUM METAL BATTERIES, 9, II (NET WGT ≤ 5.0 kg)	Tanan Tanan Tanan
14.6	SCT (MEXICO):	UN3090, BATERIAS DE LITIA, 9, II (NET WGT ≤ 5.0 kg)	1 0 1
14.7	ADGR (AUS):	UN3090, LITHIUM METAL BATTERIES, 9, II (NET WGT ≤ 5.0 kg)	
trans	ported by all modes of transp	with a Cargo Aircraft Only label in addition to the lithium battery handling label. Additional marking is required ort in the United States or to Canada. See also 49 CFR § 173.185 (c)(iii). RE FORBIDDEN FOR TRANSPORT ABOARD PASSENGER AIRCRAFT	for lithium metal batteries

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		15. REGULATORY IN	
15.1	SARA Reporting		
	Requirements:	This product does not contain any substances subje	ect to SARA Title III, section 313 reporting requirements.
15.2	SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantities	· · · · ·
15.3	TSCA Inventory Status:	The components of this product are listed on the TS	SCA Inventory or are otherwise exempt.
15.4	CERCLA Reportable Quantity (RQ):	NA	
15.5	Other Federal Requirements:	as Toxic Pollutants under the Clean Water Act (CW Clean Water Act (CWA). This product does not cor	
15.6	Other Canadian Regulations:	This product has been classified according to Regulations (CPR) and the SDS contains all o components of this product are listed on the DSL/ are listed on the Priorities Substances List. WHMIS	of the information required by the CPR. The /NDSL. None of the components of this product S D2B (Other Toxic Effects)
15.7	State Regulatory Information:		
		criteria lists: California Proposition 65 (CA65), De List (FL), Massachusetts Hazardous Substances Li Substances List (MN), New Jersey Right-to-Know Right-to-Know List (PA), Washington Permissible E WARNING: This product contains a substance(s) k reproductive harm. California law requires this warm	oncentration of 1.0% or greater, are listed on any of the following state elaware Air Quality Management List (DE), Florida Toxic Substances ist (MA), Michigan Critical Substances List (MI), Minnesota Hazardous List (NJ), New York Hazardous Substances List (NY), Pennsylvania Exposures List (WA), Wisconsin Hazardous Substances List (WI). known to the State of California to cause cancer, birth defects or other ning be given to customers in the State of California.
15.8	Other Requirements:	The primary components of this product are not listed Harmful (Xn). <u>Risk Phrases</u> (R): 65 – Harmful <u>Phrases</u> (S): 2-62 - Keep away from children. If s advice immediately and show this container or labe	may cause lung damage if swallowed. <u>Safety</u> swallowed, do not induce vomiting: seek medical
		16. OTHER INFO	PMATION
16.1	Other Information:	DANGER: IN CONTACT WITH WATER RELEASE CAUSES SEVERE SKIN BURNS AND EYE DAMA possible contact with water, because of violent read thoroughly with warm water and soap after han SWALLOWED: Rinse mouth. Do NOT induce von In case of fire: Use Lith-X powder, Class D fire ex	EXAMPABLE GASES WHICH MAY IGNITE SPONTANEOUSLY. AGE. MAY BE HARMFUL IF SWALLOWED. Keep away from any ction and possible flash fire. Wash hands and exposed skin surfaces ndling. Wear protective gloves/eye protection/face protection. IF miting. Immediately call a Poison Control Center or doctor/physician. extinguisher, Dry Lithium Chloride, or Graphite Powder for extinction. ed container. KEEP OUT OF THE REACH OF CHILDREN.
		WARNING: This product contains a substance(s) k	known to the State of California to cause cancer, birth defects or other
16.2	Terms & Definitions:	reproductive harm See last page of this Safety Data Sheet.	
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OS government regulations must be reviewed for appl Tools USA, Inc.'s knowledge, the information cc accuracy, suitability or completeness is not guaran provided. The information contained herein relate other materials, all component properties must be consult the latest edition.	SHA's Hazard Communication Standard, 29 CFR §1910.1200. Other dicability to this product. To the best of ShipMate's & Harbor Freight ontained herein is reliable and accurate as of this date; however, nteed and no warranties of any type, either expressed or implied, are es only to the specific product(s). If this product(s) is combined with e 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	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:

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 & I	REA	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:

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				3	
В						Н					8
С	0		E.			I		F		2	
D	(Fr		E.			J	0	(I)			8
Е	0					κ		(I)			
F			E-F			Х	Consult special I				
Sa	fety Glasse	es	Splash	Goggles	F		e Shield &		G	love	s
	Boots		Syntheti	c Apron	F		tive Cloth	ing	Dust F	Resp	irator
			8	3						Î	
Full I	Face Respir	rator	Dust & Va Mask Re	apor Half-			ull Face spirator		Airline I or	Hood SCB	
отн	ER STAN	DARD		•	S:		opnator		•		
	ML	Maxim	um Limit								
	mg/m3	milligra	ams per cu	ibic meter							
	NA	Not Av	ailable								
	ND	Not De	etermined								
	NE	Not Es	tablished								
	NF	Not Fo	ound								
	NR	No Re	sults								

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	DATING	·e.											
	-	ial Haz	ard					FLAMMABILITY					
		Hazar										DEA	CTIVITY
		rate Ha										REA	
		e Haza									1	\sim	
		me Ha							1			5	
ACI									\leq			2	>
ALI	K Alkalii	ne								\checkmark)	\checkmark	
CO	R Corro	sive							/	< -	₩	/	
¥	Use N	lo Wat	er					HE	EALT	н	X		
0	X Oxidiz	zer									~ •	· · · · · ·	ECIAL
TREFO	L Radio	active										FN	ECAUTIONS
TOXICOL	.OGICAL	. INFO	DRM	AT	ON:								
		LD ₅₀	Leth s	nal D)ose (s	olids	& liqu	ids) wh	ich ł	kills 50%	of the	expos	ed animals
		LC ₅₀	Leth	nal c	oncent	ration	(gase	es) whic	ch ki	lls 50% c	of the e	expose	d animal
		ppm	Con	icen	tration	expre	ssed	n parts	of n	naterial p	er mill	ion par	ts
		TD _{lo}	Low	est	dose to	o caus	se a sy	/mptorr	۱				
	Т	CLo	Low	est	concer	ntratio	n to c	ause a	sym	ptom			
TD _{lo} ,	LD _{lo} , & L	D _o or	Low	est	dose (d	or con	centra	ation) to	o cau	use letha	or tox	ic effe	cts
TC, TC	C _o , LC _{io} , &												
		ARC							h on	Cancer			
		NTP			I Toxico								
		ECS	-					t Cherr	nical	Substan	ces		
		BCF			entratio								
		TLm			thresh			- 4-26 - 42					
	Cow or log					JII/Wa	ater Di	stributio	on				
REGULA													
WHMI			<u> </u>					al Infor	mati	on Syste	m		
DO					ranspo	rtatior	า						
T(port C											
EP					rotectio		,						
DS			omestic Substance List										
NOHS			cupational Health and Safety Commission (Australia)										
NDS PS			on-Domestic Substance List iority Substances List										
TSC													
E				_	Contro			tivo 67	/5/9				
WGI	·		nion (European Union Directive 67/548/EEC) hrdungsklassen (German Water Hazard Class)										
HMIS-I		•		t & Coatings Association Hazardous Materials Identification System									
WORKPL					-								-
\bigcirc	۲) (<u>ð</u>)	(Ċ	Ð	(۲		Z	R
Class A	Class B	0	Class ()	Class	5 D1	Cla	ss D2	C	lass D3	Clas	ss E	Class F
ompressed	Flammabl	e O	Dxidizing Toxic I					ation	on Infectious Corrosive React				Reactive
EC (67/54	8/EEC)	INFO	RMA	TIC	DN:								
T.					*		ł	9	<u></u>		×		×
С	C E F N		I		0		т		G	Xn			
Corrosive	Explosive	e Fla	amma	ble	Harn	nful	Oxi	dizing	ĺ	Toxic	Irritant		Harmful
CLP/GHS			C) F	PICT					I				
				<	2	h.g			A R	<u>(</u>	><	>	
GHS01	GHS02	GHS	603	G	HS04	GH	S05	5 GHS0		GHS07	G	HS08	GHS09

Harmful

Irritating

Flammable

Explosive

Oxidizer

Pressurized

Corrosive

Toxic

Health

Hazard

Environmer