# TI 30XSMV/TBL Item Code 79392 CR 2032 Battery



6F, No.15, Wu Chuan Road, Wu-Ku Industrial Park, New Taipei City 248, Taiwan http://www.iht-energy.com

## Jhih Hong Technology Co., Ltd. 智弘科技股份有限公司

248 新北市新北産業園區五權路15號6樓 т +886 2 2298 9236

F +886 2 2290 1657 g service@jht-energy.com

## SAFETY DATA SHEET

The batteries are exempt articles and are not subject to the OSHA Hazard Communication Standard Requirement. This sheet is provided as technical information only. The information and recommendations set forth are made in good faith and believed to be accurate as of the date of preparation. However, JHIH HONG makes no warranty expressed or Implied.

Reference No. JHT 20220103

## Section 1-Product and Company Identification

Product Name: CHEMICAL SYSTEM:			L SYSTEM:	
Lithium Manganese	Dioxide Batteries	Lit	hium Manganese Dioxide	
Size:	Trade Mark:		Volts:	
ALL	JHT		3 V	
Designed for Recharge:		Date of pro	eparation:	
	NO		Jan 01 2022	
Company:			Telephone Numbers:	
JHIH HONG TECHNOLOGY CO.,LTD.			+886-2-22989236	
Address (Number, Street, City, State, and ZIP Code):		Fax Numbers:		
6F, No.15, Wu Chuan F	Road, Wu-Ku Industrial F	Park,	+886-2-22901657	
New Taipei 248				

#### Section 2 - Hazards Identification

This contains lithium, organic solvent, and other combustible materials. For this reason, Improper handling of the battery could lead to distortion, leakage\*, overheating, explosion of fire and cause human injury or equipment trouble. Please strictly observe safety instruction.

(\*Leakage is defined as an unintended escape of liquid from a battery.)

# Section 3- Composition/Information on Ingredients

Ingredient	CAS NO.	Content (wt%)
Lithium	7439-93-2	1.15 to 2.71
Propylene Carbonate	108-32-7	4.1 to 7.0
Manganese dioxide	1313-13-9	16.0 to 37.0
1,2-Dimethoxyethane	110-71-4	2.6 to 5.0
Lithium perchlorate	7791-03-9	0.6 to 1.8



6F, No.15, Wu Chuan Road, Wu-Ku Industrial Park, New Taipei City 248, Taiwan http://www.jht-energy.com

248 新北市新北産業園區五權路15號6樓 T +886 2 2298 9236

F +886 2 2290 1657

€ service@jhf-energy.com

Graphite	7782-42-5、1333-86-4	1.8 to 5.0
Polypropylene	9003-07-0	1.5 to 4.4
Stainless steel	7439-89-6	42.79 to 70.3
Lithium Bis (fluorosulfony) imide	171611-11-3	0 to 1.5
1,3-Dioxolane	646-06-0	0 to 1.5

### Lithium content for each cell

Model	Li content (g)	Li content (g) Model Li con	
CR1216	0.008	CR2032	0.064
CR1220	0.012	CR2320	0.048
CR1225	0.014	CR2354C	0.152
CR1616	0.014	CR2430	0.086
CR1620	0.024	CR2450	0.15
CR1632	0.036	CR2477	0.285
CR2016	0.023	CR3032 0.	
CR2025	0.045		

## Section 4 – First Aid Measures

None unless internal materials exposure. If contents are leaked out, observe following Instructions

Inhalation Fumes can cause respiratory irritation. Remove to fresh air and consult a physician.

Skin Immediately flush skin plenty of water. If itch or irritation by chemical bum persists, consult a physician.

Immediately flush eye with plenty of water for at least 15 minutes.

Consult a physician immediately

Ingestion If swallowing a battery, consult a physician immediately.

If contents come into mouth, immediately rinse by plenty of water and consult a physician.

# **Section 5-Fire Fighting Measures**

**Extinguishing Media** 

Eyes

Extinguisher of alkaline metal fire is effective.

Plenty of cold water is also effective to cool the surrounding area and control the spread fire. But hydrogen gas may be evolved by the reaction of water and lithium and it can form an explosive mixture. Therefore in the case that lots of lithium batteries are burning in a confined space ,use a smothering agent.



6F, No.15, Wu Chuan Road, Wu-Ku Industrial Park, New Taipei City 248, Taiwan http://www.lht-energy.com 248 新北市新北產業園區五權路15號6樓

48 新北印刷北座美園艦ユ +886 2 2208 9236

т +886 2 2298 9236

# +886 2 2290 1657 E service@jht-energy.com

Fire fighting procedure

Use self-contained breathing apparatus and full protective gear not to inhale harmful gas .

## Section 6-Accidental Release Measures

Accidental Releases: Do not breathe vapors or touch liquid with bare hands (see section 4).

Waste Disposal Methods: Evacuate area. If possible, a trained person should attempt to stop or contain the leak by neutralizing spill with soda lime or baking soda. A NIOSH Approved Acid Gas Filter Mask or Self-Contained Breathing Apparatus should be worn. Seal leaking battery and soda lime or baking soda in a plastic bag and dispose of as hazardous waste.

Other: Follow North American Emergency Response Guide (NAERG)#138 for cells involved in an accident, cells that have vented, or have exploded.

## Section 7-Handling and Storage

### 1) Handling

Never swallow. Never reverse the positive and negative terminals when mounting. Never short-circuit the battery. Never heat. Never expose to open flame. Never disassemble. Never weld the terminal or wire to the body of the battery directly. Never touch the liquid leaked out of battery. Never bring fire close to battery liquid. Never keep in touch with battery.

### 2) Storage

Never let the battery contact with water. Never store the battery in hot and high humid place. Don't push the battery excessively and destroy the battery packaging, often wet and ventilating the dry place to keep in the normal atmospheric temperature, find the unusual battery is dealt with in time

# Section 8 - Exposure Controls, Personal Protection

Respiratory Protection		NA
Ventilation	ation Local Exhaust	
	Mechanical	NA
	Special	NA
	Other	NA
Eye Protection		NA
Protective Gloves		NA
Other protective clothing		NA

## Section 9 – Physical/Chemical Characteristics

State of matter: Solid state

Form: Button type

Color: True quality of stainless steel

Smell: Tasteless (At the time of the fullness)

Resolve temperature: NA

Spontaneous combustion temperature: NA

Explosion demarcation line: Higher than 170 degrees Centigrade of batteries will be burnt

To the density (Water =1): NA

Dissolving: NA



6F, No.15, Wu Chuan Road, Wu-Ku Industrial Park, New Taipei City 248, Taiwan http://www.jht-energy.com

248 新北市新北產業園區五權路15號6樓

T +886 2 2298 9236

F +886 2 2290 1657

E service@jht-energy.com

Boiling Point:	1,2-Dimethoxyethane: 83°C
Vapor Pressure:	1,2-Dimethoxyethane :6.40(20°C)
Vapor Density:	1,2-Dimethoxyethane: 3.11
Solubility in Water:	1,2-Dimethoxyethane : :diffluence contact with water
Specific Gravity:	1,2-Dimethoxyethane:1.63
Melting Point:	1,2-Dimethoxyethane :-67°C
Evaporation Rate:	N/A
Water Reactive:	1,2-Dimethoxyethane::diffluence contact with water
Appearance & Odor:	1,2-Dimethoxyethane : achromatism liquid; slight aether odor.

# Section 10 – Stability and Reactivity

Stability	Stable
Incompatibility	Water
Hazardous polymerization	Will not occur.
Condition to avoid	See section 7.
Hazardous Decomposition or Byproducts	Hydrogen

# Section 11 – Toxicological Information

Acute Toxicity:

1,2-Dimethoxyethane:

LC<sub>50</sub> (Inhalation): N/A

LD<sub>50</sub>: N/A

Eye Effects: Corrosive Skin Effects: Corrosive

# Section 12 - Ecological Information

Aquatic Toxicity: Do not let internal components enter marine environments. Avoid releases into waterways, wastewater or groundwater.

# Section 13 - Disposal condition

The battery may be regulated by national or local regulation. Please follow the instructions of Proper regulation. As electric capacity is left in a discarded battery and it comes into contact With other metals, it could lead to distortion, leakage, overheating, or explosion, so make sure to cover the (+) and (-) terminals with friction tape or some other insulator before disposal.



6F, No.15, Wu Chuan Road, Wu-Ku Industrial Park, New Taipei City 248, Taiwan http://www.jht-energy.com

248 新北市新北産業園區五標路15號6樓

т +886 2 2298 9236 F +886 2 2290 1657 service@jht-energy.com

# **Section 14 – Transportation Information**

Lithium Manganese Dioxide Batteries is considered as "Dangerous Goods" cargo because they complied with IATA Dangerous Goods Regulations 63rd Edition of 2022 & Section IB of Packing Instruction PI 968.

Shipping Name(UN Number) Lithium metal batteries(UN3090)

Lithium metal batteries packed with equipment(UN3091) Lithium metal batteries contained in equipment(UN3091)

Hazard Classification Class 9 (Miscellaneous)

Method of transportation: As the cells are manufactured under a quality management program in an ISO9001 certified factory and the cells meet all the requirements of a UN manual of tests and criteria, Part III, sub-section 38.3, the applicable packing instructions (PI) or special provisions (SP) are as per the following table. The cells or batteries classified in Section II of any Packing Instruction or SP 188 may be exempted from Class 9 Dangerous Goods if complying with all requirements of applicable Section II or SP 188. But lithium metal cells and batteries transported as cargo are restricted to Cargo Aircraft Only.

Note. This does not apply to lithium metal batteries packed with equipment (PI 969) or contained in equipment (PI 970).

		Air Sea*See Section 15 4)			C
Li content per cell	Product name	Cell only	Cell packed with equipment	Cell contained in equipment	Sea *See Section 15 5)
not more than 0.3 g	CR1216, CR1220, CR1225, CR1616, CR1620, CR1632, CR2016, CR2025, CR2032, CR2320, CR2354C, CR2430, CR2450, CR2477, CR3032,	PI968 Section II	PI969 Section II	PI970 Section II	SP188
more than 0.3 g but not more than 1 g	(No)	PI 968 Section IB (8 or less cells: Section II)	PI969 Section II	PI970 Section II	SP188
more than 1 g	(No)	PI968 Section IA	PI969 Section I	PI970 Section I	SP230

As specific districts, countries and airlines may establish their own special requirements, the shipper must confirm requirements with the forwarder in advance.

Please confirm the aggregate lithium content when transport the battery.

# **Section 15-Regulatory Information**

EC Labeling: None Risk Phrases: None Safety Phrases: None

Labeling is not required because batteries are classified as "articles" under the Dangerous Preparations Directive and as such are exempt from the requirements of the Directive.



6F, No.15, Wu Chuan Road, Wu-Ku Industrial Park, New Taipei City 248, Taiwan http://www.jht-energy.com

## Jhih Hong Technology Co., Ltd. 智弘科技股份有限公司

248 新北市新北産業園區五權路15號6樓 T +886 2 2298 9236 F +886 2 2290 1657

a service@jht-energy.com

## **Section 16-Other Information**

Major environmental regulations are as follows:

- 1) EU BATTERY DIRECTIVE 2006/66/EC(2013/56/EU)
- 2) California Code of regulations ,Title 22,Division 4.5,Chapter 33:Best Management Practices for Perchlorate Materials

#### Note:

- 1) The symbol in above-mentioned materials " —— "representative consult at present it materials not relevant, but symbol "NA" represent field the getting more suitable for material.
- 2) If you want further information, please contact JHIH HONG sales representative.

6F, NO.15, WU CHUAN RD., WU-KU INDUSTRIAL PARK,

NEW TAIPEI CITY, TAIWAN

Tel:+886-2-2298-9236 Fax:+886-2-2290-1657

E-mail: service@jht-energy.com http://www.jht-energy.com

Last data revised 2022.01.01