

PRODUCT SAFETY DATA SHEET

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Dec. 2021

The batteries are exempt articles and are not subject to the OSHA Hazard Communication Standard Requirement. This sheet is only provided as technical information and is referred normal use of the product in question. ChaoChuang makes no warranty expressed or implied.

Section 1-Product and Company Identification

Product Name	Sizes	Date of preparation
Lithium button battery (CR)	All	Dec. 17, 2021
● Company:	Telephone Numbers:	
CHANGZHOU JINTAN CHAOCHUANG BATTERY CO.,LTD.	+86-519-	-82483588
• Address:	Fax Numbers:	
Xiyang Industrial Zone, Xuebu Town, Jintan City, Jiangsu Province, China	+86-519-	-82485336

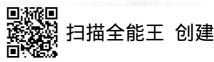
Section 2-Composition/Information on Ingredients

Ingredient	CAS#	Content(wt%)
Stainless Steel	12597~68~1	45 to 60
Manganese Dioxide	1313-13-9	15 to 40
Propylene Carbonate	108-32-7	2 to 6
1,2-Dimethoxyethane	110-71-4	1 to 5
Lithium Perchlorate	7791-03-9	0 to 1.5
Lithium or Lithium Alloy	7439-93-2	1 to 5
Graphite	7782-42-5	1 to 4
Polypropylene	9003-07-0	3 to 10
Glass Fiber	65997-17-3	1 to 2
Pb	7439-92-1	<0.0040
Hg	7439-97-6	<0.0005
Cd	7440-43-9	<0.0020

^{*)} Lithium content for each cell

NA=Not Applicable

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Model	Li content(g)	Model	Li content(g)
CR1625	0.025	CR2032	0.065
CR2016	0.025	CR2430	0.090
CR2025	0.048	CR2450	0.165
CR1632	0.038	CR1220	0.012
CR1620	0.030	CR1216	0.008
CR1616	0.016	CR927	0.008
CR1025	0.008	CR2477	0.290
CR1225	0.015	CR3032	0.170
CR2325	0.060	CR2320	0.045
CR2330	0.072	CR2354	0.155
CR2335	0.090	CR2050	0.100
CR2020	0.031		

Section 3-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 or fire and cause human injury or equipment trouble. Please strictly observe safety instructions. (*leakage is defined as an unintended escape of liquid from a battery.)

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 with plenty of water. If itch or irritation by chemical

burn persists, consult a physician.

Eyes 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.

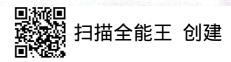
If contents come into mouth, immediately rinse by plenty of water and consult

a physician.

NA=Not Applicable

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Section 5-Fire Fighting Measures

Extinguishing Media

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.

Fire fighting procedure

Use self-contained breathing apparatus and full protective gear not

to inhale harmful gas.

Section 6-Accidental Release Measures

NA

Section 7-Handling and Storage

1) Handing

Never swallow. Never charge. Never hear. Never expose to open flame. Never disassemble. Never reverse the positive and negative terminals when mounting. Never short-circuit the battery. Never weld the terminal or wire to the body of the battery directly. Never use different batteries together. 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.

Section 8-Exposure Controls, Personal Protection

Respiratory Protection		NA
Ventilation	Local Exhaust	NA
	Mechanical	NA
	Special	NA
	Other	NA
Eye Protection	on	NA
Protective Glove		NA
Other protective clothing		NA

Section 9-Physical/Chemical Characteristics

NA

NA=Not Applicable

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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

NA

Section 12-Ecological Information

NA

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.



Section 14-Transportation Information

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)

Organizations governing the transport of lithium batteries

Area	Method	Organization	Special Provision
International	Air	IATA, ICAO	Packing instruction 968 section IB
International	Marine	IMO	SP188
U.S.A	Air, Rail, Road, Marine	DOT	49 CFR Section 173.185

Their regulations are based on the UN Recommendations. Each special provision provides specifications on exceptions and packaging for lithium metal batteries shipping. The products can be transported as "Non Dangerous Goods" when they meet the requirements of packing instruction 968 Section IB of IATA-DGR(63rd Edition)or SP188 of IMDG Code (Amdt. 40-20).

Section 15-Regulatory Information

NA=Not Applicable

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Major applicable regulations for the transportation of lithium metal cells and batteries are as follows:

- UN Model Regulations: United Nations ST/SG/AC.10/11/Rev.6/Amend.1/Section 38.3, Recommendations on the Transport of Dangerous Goods
- International Civil Aviation Organization(ICAO):Technical instructions for the Safe Transport of Dangerous Goods by Air, 2020 edition
- International Air Transport Association(IATA): Dangerous Goods Regulations, PI 968 section IB, 63rd Edition
- International Maritime Organization(IMO): International Maritime Dangerous Goods(IMDG)
 Code,(Amdt. 40-20) 2020 edition

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Section 16-Other Information

If you want further information, please contact ChaoChuang sales representative

NA=Not Applicable