

Issue date: 2021.01.01

# Safety Data Sheet

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. Pairdeer makes no warranty expressed or implied.

# **Section 1- Identification**

Product Name	Sizes	Date of preparation
Coin type Lithium Manganese-Dioxide Batteries(CR)	All	Jan.01, 2021
Company:	Telephon	e Numbers:
Zhongyin (Ningbo) Battery Co., Ltd.	+86 574 87491087 / 87493214	
Address:	Fax Num	bers:
128 Xingguang Road, Hi-Tech Park	+86 574	87493903
Ningbo		
China		

#### **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 ,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 3-Composition/Information on Ingredients

Ingredient	CAS#	Content(wt%)
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



Issue date: 2021.01.01

Graphite	7782-42-5	1 to 4	
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## \*) Lithium content for each cell

Model	Li content(g)	Model	Li content(g)
CR2012	0.014	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

# **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.

# **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



Issue date: 2021.01.01

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.

# <u>Section 6-Accidental Release Measures</u>

NA

# **Section 7-Handling and Storage**

#### 1) Handling

Never swallow. Never charge. Never heat. 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	NA	
Ventilation	Local Exhaust	NA
	Mechanical	NA
	Special	NA
	Other	NA
Eye Protection		NA
Protective Glove		NA
Other protective clothing		NA

# Section 9-Physical/Chemical Characteristics

Nominal Voltage: 3.0V

## **Section 10-Stability and Reactivity**

Stability	Stable
Incompatibility	Water

NA=Not Applicable Page 3 of 5



Issue date: 2021.01.01

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**

This report applies to by sea, by air and byland;

Battery must be of a design type proved to meet the testing requirements of the Manual of test and criteria ,PartIII,subsection38.3;

Battery arrcording to Section IB of PACKING INSTRUCTION 968 and Section II of Packing instruction 969-970 of the 2021 IATA Dangerous Goods Regulations 62nd Edition may be transported and applicable U.S.DOT regulations for the safe transport of Lithium Battery.

Battery was protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that couldled to short ciruit;

Cell and batteries offered for transport must be packed in inner packaging's that completely enclose the cell or battery;to provide protection form damage or compression to the batteries,the inner packaging's must be placed in a strong rigid outer packaging;

The packaging shall be adequate to avoid mechanical damage during transport, hadling and stacking. The materials and pack design shally be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

The package must be handled with care and that a flammability hazard exists if the package is damaged;



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With regard to transport, the following regulations are cited and considered.

- -The International Civil Aviation Organization(ICAO)Technical Instructions.
- -The International Air Transport Association(IATA)Dangerous Goods Regulations.

UN Number lithium metal batteries(UN3090)

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

UN Proper shipping name /Description(technical name):Lithium Primary/Metal batteries Marine pollutant(Y/N):Y;

**Special Provision:** 

International maritime dangerous goods code(IMDG) 188,230,310,348,957;

- -The US Hazardous Materials Regulation(HMR) pursuant to a final rule issued by RSPA.
- -The Office of Hazardous Materials Safety within the US Department of Transportation's(DOT) Research and Special Programs Administration(RSPA)

OSHA hazard communi	cation st	andard(29 CFR 1910.	1200)
Hazardous_	√	Non-harzardous	

## **Section 16-Other Information**

If you want further information, please contact Pairdeer sales representative