

ChangZhou Daily-max Battery CO.,LTD

Material Safety Data Sheet

Product name: Lithium Battery / CR2032, CR2025,CR2016

Sheet No.: MSDS—1012.2

Issued Date: 2015-1-3

1、Product name and Supplier information

Product name: Lithium Battery / CR2032, CR2025,CR2016
Supplier Name : ChangZhou Daily-max Battery CO.,LTD
Address: No.39,Huayuan Road,Changzhou City,Jiangsu Prov,China
Tel: 0519-83270474 Postcode: 213016

Tel/Fax:	Departments:	Editor:	Version : A
Tel: 0519-83270474 Fax: 0519-83270425	Quality Control Department	Name: Wubo.Tong Date: 2015-1-3	Types of document : Reference document

2、Component information

Pure Mixture

Hazardous Constituents: Lithium

Chemical Composition	Percentage of concentration	CAS NO.
Perchloric acid, lithium salt	0.7	7791-03-9
1,3-Dioxolane	1.3	646-06-0
Ethylene glycol dimethyl ether	2	110-71-4
Propylene carbonate	3	108-32-7
Polypropylene	4.4	9003-07-0
Graphite	4.6	7782-42-5
Lithium (Li)	2 %	7439-93-2
Manganese Dioxide (MnO ₂)	30%	1313-13-9
Iron	52%	7439-89-6

3、Hazard identification information:

Pathways:	Devour
* Health hazards effect:	If they inadvertently swallowed, may cause digestive ulcers or mechanical injury.
* Environmental impact:	Pollution-free
* Physical and chemical hazards	If the battery on fire, or other high temperature environments, the batteries will burst, and even have a personal risk.

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4、First aid measures

● Devour :	If they inadvertently swallowed urged rushed to hospital.
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5、Fire-fighting measures

Application of fire extinguishing agent:	Powder fire extinguishing agent, dry sand can be used to cover up
Fire Note:	As with lithium can be seen in the water, do not water extinguishing agents

6、Leaking approach

Battery is solid, under normal circumstances is safe, but if the accident caused internal lithium battery-exposed, please note away from the fire source and water. In the event of dry yellow sand can be used to cover up the fire-fighting and when not to water leaking massive fire.

7、Safe disposal and storage methods

1. Store in cool, dry place, away from fire, heat and prevent prolonged exposure under the hot sun 2. Prohibition of the Use easily generate sparks of mechanical equipment and tools

8、Access control/ Personal protective

Lithium batteries for green products, and physical contact is safe and therefore do not need any protection.

9、Toxicity data

Toxic Effects:	None
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10、Ecological data

Environmental pollution:	The environment will not be seriously polluted, a green product.
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11、Physical and Chemical Properties

Material state:	Solid
Appearance / Color:	The silvery white
Odor:	None
Melting point:	The melting point Lithium internal components for 180.5 °C
Solubility:	---
PH:	---
Volatile:	---
The main purpose:	As calculators, toys, remote controls, computer motherboards, and other electrical appliances used battery power.

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12、 Safety and reactivity

Safety :	It is stable at room temperature
Against reaction:	Can not take place
Special attention to the matter:	Avoid open flame near the body and fever
The material should be avoided:	Avoid the large direct contact with metal or liquid, the battery will short-circuit

13、 Waste disposal methods

Waste disposal methods:	Battery recycling sector should be linked. For large scrap batteries, do not make them short, or else they might fire.
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14、 Transport information

14.1 United Nations: UN⁰ 3481
Classification 9
Packaging ICAO 903 for Air Transport
IMDG 903 for Sea Transport
Requirement Special Provision A154,UN Manual of Tests and Criteria, Part III, Sub-section 38.3

14.2 international conventions: Air IATA Yes
Sea IMDG Yes
Land ADR(road) Yes
RID(rail) Yes

14.3 other: In the USA: Code of Federal Regulations
(49 CFR Ch.1 § 173-185)

Their regulations are based on the UN Recommendations.Each special provision provides specifications on exceptions and packing lithium batteries shipping.The product can be transported as: Non-Dangerous Goods” when they meet the requirements of packing instruction 968 section II or 969 section II or part 970 section II of IATA-DGR(56th edition)or SP188 of IMO-IMDG Code Shipping

15、 Regulations information

EC Labeling	Risk Phrase	Safety Phrase
None	None	None

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16、 Other information

References:	GJB 2374-95 (Lithium battery safety requirements)
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This information is only applicable to the designated material, the information is up to legislate battery Limited Changzhou in the product before the date indicated in all understand and believe that their accuracy and reliability. However, the information of the Company the accuracy, reliability and integrity not to make any commitments and guarantees. Users themselves must be in accordance with their own applications and the applicability of the data integrity responsible.