



MSDS Report

Prepared For :	Putian new web battery limited company Hualin economic zone of chengxiang district of Putian city, Fujian Province,China.
Product Name:	LITHIUM BATTERY
Model :	CR2032
Trademark:	N/A
Nominal Voltage:	3V ,200mAh
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Date : Jan.31,2018





Material Safety Data Sheet

Section 1- Chemical Product & Company Identification

Product Name: LITHIUM BATTERY

Manufacture: Putian new web battery limited company

Hualin economic zone of chengxiang district of Putian city,
Fujian Province,China.

Section 2- Composition/Information on Ingredients

Chemical characterization:

Chemical Name	CAS No.	Wt %
Lithium metal	7439-93-2	2
Lithium perchlorate	7791-03-9	0.8
PC	25037-45-0	4.5
DME	115-10-6	4.5
DOL	646-06-0	0.1
Polypropylene Engineering plastic	9003-07-0	4.5
Manganese Dioxide	1313-13-9	30
Graphite	7782-42-5	3
Acetylene black	1333-86-4	3
430 Stainless iron 430	NA	47.6



Section 3- Hazards Identification

Emergency Overview: May explode in a fire, which could release lithium hydroxide gas.

Primary routes of entry:

Skin contact: Contact with damaged batteries may cause burns.

Eye contact: Contact with damaged batteries may cause burns.

Inhalation: Inhalation of vapors or fumes released due to heat or a large number of leaking batteries may cause respiratory and eye irritation.

Ingestion: Ingestion of battery contents may cause mouth, throat and intestinal burns and damage.

Section 4- First Aid Measures

Skin contact: If the battery is leaking and the contained material contacts the skin, remove contaminated clothes quickly and rinse the skin with plenty of water at least 15 minutes. If irritation or pain persists, get medical aid at once.

Eyes contact: If the battery is leaking and the contained material contacts the eyes, flush the eyes with plenty of water or saline water at least 15 minutes. Get medical aid at once.

Inhalation: If the battery is leaking, remove to fresh air immediately. Keep the respiratory tract smooth. Use oxygen if available. Get medical aid.

Ingestion: If the battery is leaking and the contained material is ingested, rinse mouth and surrounding area with clear water at once. Get medical aid at once.

Section 5- Fire Fighting Measures

Danger characteristic: Batteries may burst and release hazardous decomposition products when exposed to a fire situation.

Hazardous combustion products: Carbon monoxide, carbon dioxide, metal oxide, irritate fume, etc.

Fire-Fighting method & media: The staff must equipped with filtermask (full mask) or isolated breathing apparatus. The staff must wear the clothes which can defence the fire and the toxic gas. Put out the fire in the upwind direction. Remove the container to the open space as soon as possible. Put out a fire in the surrounding environment with the right agent. Such as CO₂, dry powder, sandy clay.



Section 6- Accidental Release Measures

Disposal methods:

1. Rapid evacuation leakage pollution area personnel to safe areas, and isolation, strictly limited access;
2. Provide adequate protection and ventilation equipment;
3. Cleaning the spillage with the method does not produce dust, collect the leakage in a suitable labeled container as much as possible;
4. In a safe condition, choose appropriate ways to prevent or reduce leakage, for example use sand or clay ring-fence leakage, possible cut off leakage source, avoid into sewer or other enclosed spaces;
5. Cut off the source of leakage as much as possible, avoid entering sewers or other confined space;
6. If a large number of leakage, collect and recycle leakage to suitable and indicative covered container, and shipped to a special waste disposal site disposal.

Section 7- Handling and Storage

Handling: Avoid long-term repeated contact with skin. Job site should keep ventilation. Keep away from heat. Sealed container when not using. Reduce dust accumulation and generation. Avoid eye contact. Avoid breathing dust. Wash with soap and water after contact. Empty containers will contain this chemical residue. Don't damage the empty container.

Storage: Stored in a low temperature, dry, well ventilated environment. Avoid direct sunlight. Store away from food and water, wash your hands thoroughly before eat bread or drink water. Far from taboo object, such as strong oxidizer, strong acid. Keep away from fire and heating sources. Equipped with corresponding varieties and number of fire equipment. Storage areas should be equipped with leakage emergency treatment equipment and suitable for accept materials.

Section 8 - Exposure Controls/Personal Protection

Monitoring method: No data available.

Engineering controls: Ensure vapor concentration in the workshop under the requirements of existing OSHA.

Respiratory system safeguard: Exceed the standard concentration in air, must wear



self-priming filter type gas mask (half mask), emergency rescue or evacuation, should wear air respirator.

Eye safeguard: Wear chemical safety protective glasses.

Body safeguard: Wear anti-static clothes.

Hand safeguard: Wear rubber oil resistant glove.

Else safeguard: No smoking at job site. Avoid prolonged and repeated contact.

Section 9- Physical and Chemical Properties

General Information

State: Solid

Color: Silvery

Chemical properties:

Boiling Point: Not Applicable

relative vapour density: Not Applicable

saturated vapor pressure: Not Applicable

Nominal Voltage(Cell/Battery/Power Bank): 3V

Section 10 – Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Avoid contact conditions: No data available

Prohibited content: Strong oxidizer, strong acids

Aggregate harm: No data available

Decomposition product: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 – Toxicological Information

toxicology influencing information

Acute toxicity: No known significant effects or critical hazards.

Irritation: May cause sensitization by Inhalation and skin contact.

Chronic toxicity: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.



Reproduction toxicity: No known significant effects or critical hazards.

If the cells are opened through misuse or damage, discard immediately. Internal components of cell are irritants and sensitizers.

Section 12-Ecological Information

Ecotoxicity: No known significant effects or critical hazards.

Biological degradability: No known significant effects or critical hazards.

Non-living things degradability: No known significant effects or critical hazards.

Biology gathering and biology accumulate: No known significant effects or critical hazards.

Section 13 – Disposal Considerations

Waste disposal methods: All waste must be referring to the United Nations, national and local regulations for disposal, the dumped or discarded material may be regard as a restrictive waste referring to local regulations. Cleaned containers containing this substance were also required treatment. Comply with waste law. Atmospheric Pollution Act and water pollution law for disposal.

Section 14 – Transport Information

Number of dangerous goods: 9

UN Number: 3090

Packaging Mark: No data.

Packaging Method: No data.

Transport Attentions:

According to the Packing Instruction 965 section II of IATA DGR 59th Edition for transportation.

According to the special provision 188 and 230 of IMDG (38-16). The batteries should be securely packed and protected against short-circuits. Examine whether the package of the containers are integrate and tighten closed before transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles. Don't put the goods together with oxidizer and chief food chemicals. The transport vehicle and ship must be cleaned and sterilized otherwise it is not allowed to assemble articles. During transport, the vehicle should prevent exposure, rain and high



temperature. For stopovers, the vehicle should be away from fire and heat sources. When transported by sea, the assemble place should keep away from bedroom and kitchen, and isolated from the engine room, power and fire source. Under the condition of Road Transportation, the driver should drive in accordance with regulated route, don't stop over in the residential area and congested area. Forbid to use wooden, cement for bulk transport.

15 法规信息 Regulations

OSHA Hazard communication standard (29 CFR 1910.1200)

Hazardous Non-hazardous

Please note that waste disposal should meet local regulatory requirements.

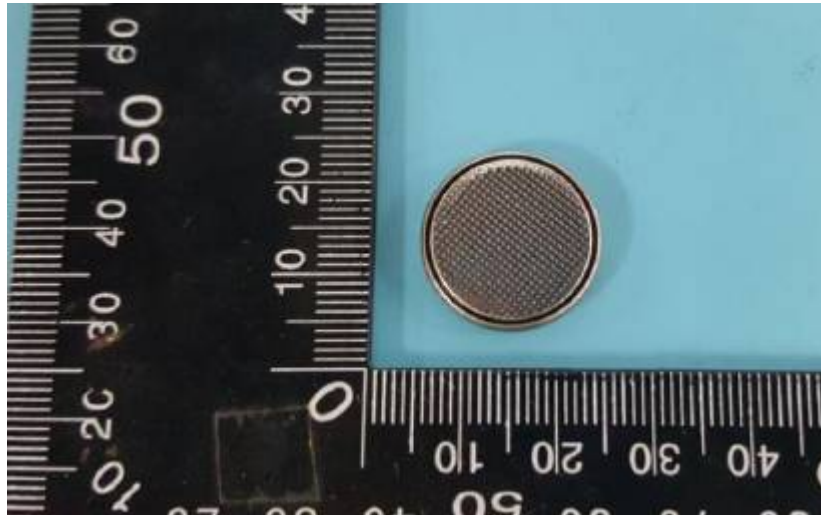
16 其他信息 Other information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.



Note:

-Sample photo:



End of report