



Block 1-2, Hebei Industry Park, Sanlian Village, Longhua Street, Longhua New Area, Shenzhen
City, Guangdong Province

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Material Safety Data Sheet

Description: Rechargeable Lithium-ion Battery

1. Chemical Product Identification

Product Identification:

Rechargeable Lithium-ion Battery

Model No. : 4260124P 8400mAh 3.7V 31.08WH

2. Company Information

Manufacturer:

SHENZHEN MBELL ELECTRONICS CO., LTD

Block 1-2, Hebei Industry Park, Sanlian Village, Longhua Street, Longhua New Area,
Shenzhen City, Guangdong Province

Telephone: +86-755-32907577

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Hazardous Ingredients	Percentage%	Cas. No
Metal Oxide (proprietary)	/	/
Stainless steel. Nickel and inert materials	Remainder	N/A
Aluminum Foil	5.8	7429-90-5
Copper Foil	10.9	7440-50-8
Lithium Cobalt Oxide	42.4	12190-79-3
styrene-butadiene copolymer (SBR)	0.5	9003-55-8
N-methyl-pyrrolidone(NMP)	0.3	872-50-4
Sodium Carboxymethyl Cellulose(CMC)	0.3	9004-32-4
Polyvinylidene Fluoride (PVDF)	1.5	24937-79-9
Carbon (Proprietary)	19.9	7782-42-5
		21324-40-3
Electrolyte (proprietary)	18.3	96-49-1
		616-38-6
		623-53-0



Report Date: 2015-04-23

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3. Hazardous Identification

Emergency Overview

May explode in a fire, which could release hydrogen fluoride gas,
Use extinguishing' media suitable for materials burning in fire.

Primary Routes of Entry

Skin contact, Skin absorption, Eye contact. Inhalation, and Ingestion : **NO**

Symptoms of exposure

Skin contact

No effect under routine handling and use

Skin absorption

No effect under routine handling and use

Eye contact

No effect under routine handling and use

Inhalation

No effect under routine handling and use.

Reported as caseinogens

Not applicable.

4. First Aid Measures

Inhalation

Not a health hazard.

Eye contact

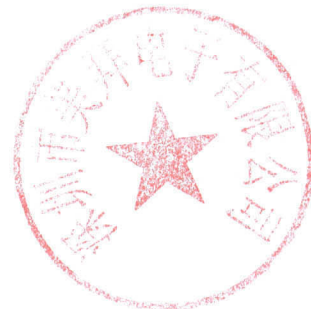
Not a health hazard.

Skin contact

Not a health hazard.

Ingestion

If swallowed, obtain medical attention immediately.



IF EXPOSURE TO INTERNAL MATERIALS WITHIN CELL DUE TO DAMAGED OUTER CASING THE FOLLOWING ACTIONS ARE RECOMMENDED:

Inhalation

Leave area immediately seek medical attention.

Eye contact

Rinse eyes with water for 15 minutes and seek medical attention.

Skin contact

Wash area thoroughly with soap and water and seek medical attention.

Ingestion

Drink milk/water and induce vomiting: seek medical attention.

5. Fire Fighting Measures

General Hazard



Cell is not flammable. Combustion products include, but are not limited to Hydrogen fluoride, carbon monoxide and carbon dioxide.

Extinguishing Media

Use extinguishing media suitable for the materials that are burning

Special Fire fighting Instructions

If possible, remove cell(s) from fire fighting area . If heated above 160C, cell(s) may explode/vent.

Fire fighting Equipment

Use NIOSH/MASHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.

6. Accidental Release Measures

On Land

Place material into suitable containers and call local fire /police department

In water

If possible, remove from water and call local fire /police department.

7. Handling and Storage

Handling

No special protective clothing required for handling individual cells.

Storage

Store in a cool, dry place.

8. Exposure Controls / Personal Protection

Engineering control

Keep away from heartened open flame. Store in a cool dry place.

Personal Protection

Respirator

Not required during normal operations. SABA required in the event of a fire

Eye /Face protection

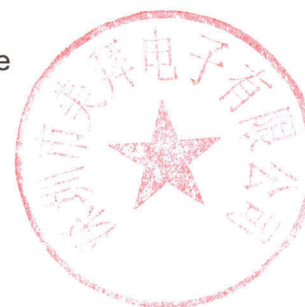
Not required safety practices of employer.

Gloves

Not required for handling of cells.

Foot protection

Steel toed shoes recommended for large container handling.



9. Physical and Chemical Properties

State	Solid
Odor	N/A
PH	N/A
Vapor pressure	N/A
Vapor density	N/A
Boiling point	N/A



Solubility in water	insoluble
Specific gravity	N/A
Density	N/A

10. Stability and Reactivity

Reactivity

None

Incompatibilities

None during normal operation. Avoid exposure to heat. Open name and corrosives.

Hazardous Decomposition Products

None during normal operating conditions. If cells are opened, hydrogen fluoride and carbon monoxide may be released.

Conditions To Avoid

Avoid exposure to heat and open flame. Do not puncture, crush or incinerate.

11. Toxicological information

This product does not illicit toxicological properties during routing handling and use.

Sensitization: No

Teratogenicity: No

Reproductive toxicity: No

Acute toxicity: No

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

12. Ecological Information

Some materials within the cell are bioaccumulative. Under normal conditions, these materials are contained and pose no risk to persons or the surrounding environment.

13. Disposal Considerations

California regulated debris

RCRA Waste Code: Non-regulated

Dispose of according to all federal, state, and local regulations.



14. Transport Information

For the international transport of lithium batteries, they must comply with these regulations:

The goods are packaged according to the special provision 188 of IMDG, Dangerous Goods Regulations (DGR) by International Air Transport Association (IATA) and Technical Instructions for the Safe Transport of Dangerous Goods by Air (TI) by International Civil Aviation Organization (ICAO). These regulations are based on the UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria.

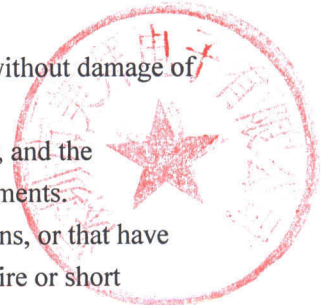
Lithium batteries which meet the requirements of UN38.3 (UN Manual of Tests and Criteria, Part III,



subsection 38.3) could be transported by air and by sea as ordinary goods, otherwise should be transported according to Class 9, Packing Group II hazardous goods.

As the published of the UN Recommendations on the Transport of Dangerous Goods, all these regulations have added some new contents to regulate the transport of lithium ion batteries.

1. For lithium ion batteries, UN ID number is 3480. For lithium ion batteries contained in equipment or lithium ion batteries packed with equipment, UN ID number is 3481.
2. The consignment should be fully described by proper shipping name and packed, marked and in proper condition for carriage by air. The consignment is not classified as dangerous under the current edition of the IATA 56th Effective whose validity is 2015, Dangerous goods regulation and all applicable carrier and government regulations.
3. For transported by air, Lithium-ion Cells/Batteries shipped cargo: must comply with Section II of PI965-PI967 accordingly; For cells, the Watt-hour rating should not be more than 20Wh; For batteries, the Watt-hour rating should not be more than 100Wh. Watt- hour rating must be marked on the outside of the battery case (marked by manufacturer).
4. Each consignment must be accompanied with a document such as an air waybill with an indication. For those Lithium ion cells/ batteries contained in equipment, the equipment must be equipped with an effective means of preventing accidental activation. The telephone number for additional information for Shenzhen Mbell Electronics Co., Ltd. cells is +86-755-32907577.
5. The net quantity of lithium-ion battery(cells) shall not exceed 10kg if transport as PI 965, and need to paste the Li-ion battery marking and Class 9 hazardous goods marking; The net quantity of lithium-ion battery(cells) shall not exceed 5kg if transport as PI 966 or PI 967, and need to paste the Li-ion battery marking.
6. Each package must be capable of withstanding a 1.2m drop test in any orientation without damage of cells or batteries contained therein.
7. Lithium batteries which meet the requirements of which could be transported by air, and the batteries manufactured by Shenzhen Mbell Electronics Co., Ltd. meet these requirements. (Lithium batteries identified by the manufacturer as being defective for safety reasons, or that have been damaged, that have the potential of producing a dangerous evolution of heat, fire or short circuit are forbidden for transport.)
8. Cells and batteries must be protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit.



15.Regulatory Information

Marking consideration:	European Union: According to Directive 2006/66/EC, the batteries have to be marked with the crossed wheel bin symbol. According to Dangerous Goods Regulations (see 14.) battery packs have to be marked with the Watt-hour rating.
United Nations	: Packaging ICAO: 903 for Air transport, special provision A154, UN Manual of Tests and Criteria, Part III, Sub-section 38.3; IMDG: 903 for Sea transport, special provision A154, UN Manual of Tests and Criteria, Part III, Sub-section 38.3.



International conventions:	Air	IATA	Yes
	Sea	IMDG	Yes
	Land	ADR(Road)	Yes
		RID (Rail)	Yes

International : This MSDS conforms to European Union (EU), the International Standards Organization (ISO) and the International Labour Organization (ILO)

China : This MSDS in accordance with GB/T18287-2013:General specification of lithium-ion battery for cellular phone.

USA : This MSDS meets/exceeds OSHA requirements; Code of Federal Regulations(49CFR Ch.1§173-185)

16. Other Information

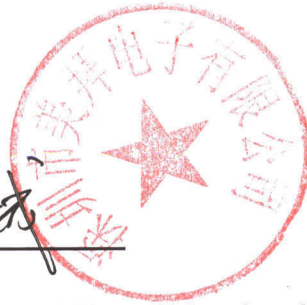
The transport of rechargeable lithium-ion batteries is regulated by various bodies (IATA, IMO, ADR, US-DOT) that follow the United Nations "Recommendations on the Transport of Dangerous Goods, Model Regulations, 17th Revised edition - Amendment 1 «Lithium Batteries»".

Hazardous: **Non-hazardous**

SIGNER'S FULL NAME: _____

TITLE: **Manager**

COMPANY NAME: **Shenzhen Mbell Electronics Co., LTD**



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