



製品安全データシート
MATERIAL SAFTY DATA SHEET
安全数据表

Product name SP-60

26.6V 6.0A 159.6Wh

SP-60 は B タイプを使用しています。

SP-60 is using the B type.

SP-60 目前使用 B 类型。

160W 以下の為、1人2個まで機内持ち込み可能です。

As less 160W of one SP-60, which can bring 2 to go board for 1 person.

因功率在 160W 以下，所以 1 人可提 2 个登机。


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SAFTY DATA SHEET

Manganese Based Rechargeable Lithium Ion Secondary

D2, D3, SR,DL, B Type Battery

SHUANG YI LI (TIANJIN) NEW ENERGY CO., LTD.

1. Chemical Product and Company Identification

Product Identification

Manganese based Lithium-ion D2, D3, SR,DL , B type battery

Manufacturer

Shuang Yi Li (Tianjin) New Energy Co., LTD.

No.11Building, Fenghua Industrial Park Phase2,No80

The Ninth Street,TEDA,Tianjin,P.R.China

P.C. 300457

Emergency Telephone Number

+86-22-25299588

2. Composition Information

| Hazardous Ingredients | % | CAS Number |
|--------------------------------|---------|------------|
| Aluminum Foil | 2 – 10 | 7429-90-5 |
| Manganese dioxide(proprietary) | 70 – 80 | 12057-17-9 |
| Nickel Oxide(proprietary) | 5 – 10 | 1313-99-1 |
| Cobalt Oxide(proprietary) | 1 – 5 | 12190-79-3 |

| | | |
|------------------------------------|-----------|------------|
| Polyvinylidene Fluoride(PVDF) | <5 | 24937-79-9 |
| Carbon (proprietary) | 10 – 30 | 7440-44-0 |
| Organic electrolyte | 6 – 26 | |
| Aluminum, Copper and inert Polymer | Remainder | N/A |

3. Hazards Identification

Emergency Overview

Chemical contents are sealed in an aluminum laminate. Risk of the revelation does not produce it if a battery does not do wrong handling one mechanically or electrically. Risk of explosion by fire is anticipated if batteries are disposed of in fire or heated above 80 degree Celsius. Batteries may cause external short circuits, heat generation, in some case, allowing fire or explosion.

Primary routes of entry

Skin contact : NO
Skin absorption : NO
Eye contact : NO
Inhalation : NO
Ingestion : NO

Symptoms of exposure

Skin contact

No effect noticed in routine of product.

Skin absorption

No effect notice in routine of product.

Eye contact

The bulk solid has no effect on the eye.

Inhalation

No effect noticed in routine handling of product.

Reported as carcinogen

Not applicable

4. First Aid Measures

Inhalation

Not a health hazard

Eye contact

Not a health hazard

Skin contact

Not a health hazard

Ingestion

Not applicable

If exposure to internal materials within cell due to damaged outer casing, the following actions are recommended.

Inhalation

Leave area immediately and 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

Not applicable

5. Fire Fighting Measures

General Hazard

Cell is not flammable but internal organic material will burn if the cell is incinerated.

Combustion products include, but are not limited to hydrogen fluoride, carbon monoxide and carbon dioxide.

Extinguishing media

A powdery fire extinguishing drug, a bubble fire extinguishing drug, carbon dioxide, a large quantity of water are effective.

Special Firefighting Instructions

If possible, remove cell(s) from fire fighting area, if heated above 125°C, cell(s) may explode/vent.

Firefighting Equipment

Use NIOSH/MSHA 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 controls

Keep away from heat and open flame, store in a cool dry place.

Personal Protection

Respirator

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

Eye / face protection

Not required beyond 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 operating. Avoid exposure to heat, open flame and corrosive.

Hazardous Decomposition Product

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 elicit toxicological properties during routine 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 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

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

14. Transport Information

UN number: UN 3480

Do not toss, press or load on the cell.

15. Other information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Exact composition information is immediately available on a confidential basis to medical professionals treating exposure to cell components or combustion by-products.

Hydrofluoric Acid Exposure during Fire Fighting

This information is given for use of professional fire fighter responding to a warehouse fire where fire from other materials may incinerate battery. This section is provided solely in case of exposure, during fire fighting, to the combustion by-products. Hydrofluoric acid is not present in the product. Contact with battery causes none of the following symptoms.

Hydrofluoric acid is extremely corrosive. Contact with hydrogen fluoride fumes is to be avoided. Permissible exposure limit is 3 ppm.

In case of contact with hydrogen fluoride fumes, immediately leave the area and seek first aid and emergency medical attention.

Symptoms may have delayed onset. Fluoride ions penetrate skin readily causing destruction of deep tissue layers and even bone.

Fluoride interferes with nerve impulse conduction causing severe pain or absence of sensations. Immediately flush eyes or skin with water for at least 20 minutes to neutralize the acidity and remove some fluoride. Remove and destroy all contaminated clothing and permeable personal possessions. Before re-use, impermeable possessions should be soaked in benzalkonium chloride after washing. Following flushing of the affected areas, an iced aqueous solution benzalkonium chloride or 2.5% calcium gluconate gel should be applied to react with the fluoride ion.

Compresses and wraps may be used for areas where immersion is not practical. Medicated dressing should be changed every 2 minutes.

Exposure to hydrofluoric acid fumes sufficient to cause pain requires immediate hospitalization for monitoring for pulmonary edema.