

## Shuangdeng Group Co., Ltd

## SAFETY DATA SHEET

## SDA10-48100

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LITHIUM ION BATTERIES SDA10-48100  
Company: Shuangdeng Group Co., Ltd  
Address: NO.999,TIANMU WEST ROAD,ECONOMIC DEVELOPMENT ZONE,  
JIANGYAN CITY, JIANGSU PROVINCE,CHINA  
Email: wlwshoto@gmail.com  
Fax: +86 - 523 - 88529855  
Emergency Phone: +86 - 523 - 88912303  
SDS Number: 2612040021  
SDS Date: 2023-01-01

## SECTION 2. HAZARDS IDENTIFICATION

## Hazards Identification:

Class 9, miscellaneous. The battery has passed the test items of UN Model Regulations. Manual of Test and Criteria Section UN 38.3

## Emergency Overview:

Caution: Avoid contact and inhalation the electrolyte contained inside the battery.

## SECTION 3. INFORMATION ON INGREDIENTS

Product name: LITHIUM ION BATTERIES (INCLUDING LITHIUM ION POLYMER BATTERIES)  
SDA10-48100

Hazardous Ingredients (Chemical Name)	Concentration or concentration ranges (%)	CAS Number
lithium iron phosphate (LiFePO <sub>4</sub> )	35.50%	15365-14-7
Aluminum Foil (Al)	9.00%	7429-90-5
1,1-Difluoroethylene polymer	1.00%	24937-79-9
Graphite ( C )	18.00%	7782-42-5
Copper Foil (Cu)	15.00%	7440-50-8
Styrene-Butadiene polymer	1.50%	9003-55-8
Phosphate( 1-), hexafluoro-, lithium	2.80%	21324-40-3
Ethylene carbonate	5.00%	96-49-1
Dimelene carbonate	5.00%	616-38-6
Carbonate, methyl ethyl	5.00%	623-53-0
Nickel	2.20%	7440-02-0

## SECTION 4. FIRST-AID MEASURES

### Skin Exposure:

If the internal battery materials of an opened battery cell come into contact with the skin, immediately flush with plenty of water.

### Eye Exposure:

In case of the internal battery materials in contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### Inhalation Exposure:

If inhaled the internal materials of battery, remove immediately to fresh air and seek medical attention.

### Oral Exposure:

If swallowed the internal materials of battery, do not induce vomiting. Seek immediate medical attention.

## SECTION 5. FIRE FIGHTING MEASURES

### Extinguishing Media:

Suitable: Dry chemical. Sandy soil, Carbon dioxide or appropriate foam.

### Firefighting:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific hazards: Emit toxic fumes under fire conditions.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Procedure of Personal Precaution:

If batteries show signs of leaking, avoid skin or eye contact with the material leaking from the battery.

Use chemical resistant rubber gloves and non-flammable absorbent materials for clean up. Mix with inert material (e. g. dry sand, vermiculite) and transfer to sealed container for disposal.

## SECTION 7. HANDLING AND STORAGE

### Handling:

Keep away from ignition sources, heat and flame. Such batteries must be packed in inner packages in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits. Avoid mechanical or electrical abuse. More than a momentary short circuit will generally reduce the battery service life. Avoid reversing battery polarity within the battery assembly. In case of a battery unintentionally be crushed rubber gloves must be used to handle all battery components. Avoid contact with eyes, skin. Avoid inhalation. No smoking at working site. Materials to Avoid: Strong oxidizing agents. Corrosives.

### Storage:

Store in well ventilated, dry conditions at approximately  $25\pm 2^{\circ}\text{C}$  and 5-95%RH, state of charge (Open circuit voltage of approximately 3.2-3.3V/cell for Iron-based products).

Keep in closed original container when not in use.

The boxes and batteries are designed for storage in indoor environments (except for outdoor rated batteries). Do not store in wet or moist environments.

## SECTION 8. EXPOSURE CONTROL/PPE

### Engineering Controls:

Use ventilation equipment if available. Safety shower and eye bath.

### Personal Protective Equipment:

Respiratory System: Not necessary under conditions of normal use.

Eyes: Not necessary under conditions of normal use.

Clothing: Wear appropriate protective clothing.

Hand: Safety gloves

### Other Protect:

No smoking, drinking and eating at working site. Wash thoroughly after handling

## SECTION 9. PHYSICAL/ CHEMICAL PROPERTIES

Appearance: Black plastics cement and metal shell

Odor: Odorless

Melting Point/ C: >300 C

Solubility: Partial soluble in water

## SECTION 10. STABILITY AND REACTIVITY

### Stability:

Stable under normal temperatures and pressures.

### Conditions to Avoid:

Avoid exposure to heat and open flame. Avoid mechanical or electrical abuse. Prevent short circuits.

Prevent movement which could lead to short circuits.

### Materials to Avoid:

Strong oxidizing agents, Corrosives.

### Hazardous Polymerization:

Will not occur

### Hazardous Decomposition Products:

Metal oxides, CO, CO<sub>2</sub>,

## SECTION 11. TOXICOLOGICAL INFORMATION

### Toxicity Data:

Not available.

### Irritation Data:

The internal battery materials may cause irritation to eyes and skin.

## SECTION 12. ECOLOGICAL INFORMATION

No data available.

## SECTION 13. DISPOSAL CONSIDERATION

Appropriate Method of Disposal of Substance:

Lithium batteries are best disposed of as a non-hazardous waste when fully or mostly discharged. Contact a licensed professional waste disposal service to dispose of large quantities materials.

#### SECTION 14. TRANSPORT INFORMATION

IATA: Proper Shipping Name:  
LITHIUM ION BATTERIES (INCLUDING LITHIUM ION POLYMER BATTERIES)  
UN Number:3480  
Hazard Class:9  
Packing Group:NONE

RID/ADR: Proper Shipping Name:  
LITHIUM ION BATTERIES (INCLUDING LITHIUM ION POLYMER BATTERIES)  
UN Number:3480  
Hazard Class:9  
Packing Group : NONE

IMO: Proper Shipping Name:  
LITHIUM ION BATTERIES (INCLUDING LITHIUM ION POLYMER BATTERIES)  
UN Number:3480  
Hazard Class:9  
Packing Group: NONE  
EmS No.: F-A, S-I

#### SECTION 15. REGULATORY INFORMATION

US DOT Effective December 29, 2004, the DOT requires that the outside of each package that contains primary lithium batteries, regardless of size or number of batteries, be labeled with the following statement: "PRIMARY LITHIUM BATTERIES-FORBIDDEN FOR TRANSPORT ABOARD PASSENGER AIRCRAFT". The labeling requirement covers shipments via highway, rail, vessel or cargo-only aircraft and covers all shipment inside, into or out of the US. The label must be in contrasting color and the letters must be 12mm (0.5 in) in height for packages weighing more than 30Kg and 6mm (0.25 in) in height for packages weighting less than 30Kg.

#### SECTION 16. OTHER INFORMATION

Date: 2023-01-01  
Department: Shanghai Research Institute of Chemical Industry Testing Centre  
Shanghai Classification and Testing Centre of Dangerous Chemicals for State Administration of Work Safety  
TEL(FAX):8621-52815377/52800971/52807275/52811034/52569800

Revision: 0  
Other Information: The above information is believed to be correct but does not purport to be all inclusive

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