



中国认可  
检验  
INSPECTION  
CNAS IB0071



NO.2624050016

# SAFETY DATASHEET

Product Name: Lithium ion Battery 10850 3.7V 750mAh

Effective Date: 2024-05-21

Compiler: Huang Chaozhong

Checker: Liu Wangqing

Approver: Dongxuesheng



Shanghai Institute of Chemical Industry Testing Co., Ltd.



CS 扫描全能王

3亿人都在用的扫描App

# 声 明

## Statement

1. 本报告无上海化工院检测有限公司检验检测专用章、二维码无效。  
The report is invalid if it is not affixed the dedicated inspection and testing seal of Shanghai Institute of Chemical Industry Testing Co., Ltd. and QR Code on it.
2. 本报告复印件无效。  
Copies of the report are invalid.
3. 本报告无编制、审核、批准人签字无效。  
The report is invalid without the signatures of compiler, checker and approver.
4. 本报告涂改无效。  
The report is invalid if it is forged or altered.
5. 本报告中的检验结论仅适用于收到的样品。  
The inspection conclusion of this report only applies to the sample as received.
6. 除另有说明，检测检验类别都是指委托分析。  
Unless noted otherwise, the test type is consignment test.
7. 本报告的真伪性可登入本公司网站 <http://www.ghs.cn> 查询  
The authenticity of the report can be checked via our website: <http://www.ghs.cn>.

地址：上海市光复西路 2779 号接待大厅

Address: No.2779 West Guangfu Road, Shanghai, China

邮政编码(Post Code): 200062

电话(Tel): (021) 31015134

网址 (web site): [www.ghs.cn](http://www.ghs.cn)

电子信箱(E-mail): [sds@ghs.cn](mailto:sds@ghs.cn)



# Best Allied International Corporation

## SAFETY DATA SHEET

### Lithium ion Battery 10850 3.7V 750mAh

#### SECTION1 PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Lithium ion Battery 10850 3.7V 750mAh  
**Company:** Best Allied International Corporation  
**Address:** Room 314 Block C, Lane 58 East Xinjian Road, Minhang District, Shanghai, 201100, P.R.China  
**Email:** Jessie@bestallied.com  
**Fax:** 86-21-54178260  
**Emergency Phone:** 86-21-54178256  
**Recommend use of the chemical and restrictions on use:** /  
**SDS Number:** 2624050016  
**Effective Date:** 2024-05-21

#### SECTION2 HAZARDS IDENTIFICATION

The product is outside of the scope of GHS system.

##### Main Hazards:

##### Fire or Explosion Hazards:

Lithium ion battery contains flammable liquid electrolyte that may vent, ignite and produce sparks when subjected to high temperatures (>150°C), when damaged or abused (e.g., mechanical damage or electrical overcharging). May burn rapidly with flare-burning effect. May ignite other batteries in close proximity.

##### Health Hazards:

Contact with the electrolyte of battery may be irritating to skin, eyes and mucous membranes. Fire will produce irritating, corrosive and/or toxic gases. Fumes may cause dizziness or suffocation.

#### SECTION3 INFORMATION ON INGREDIENTS

**Product name:** Lithium ion Battery 10850 3.7V 750mAh

Ingredient	Concentration	CAS No.	EC No.
Cobalt lithium manganese nickel oxide	39.6%	346417-97-8	620-032-4

1/8



Graphite	23.2%	7782-42-5	231-955-3
Lithium hexafluorophosphate	15.35%	21324-40-3	244-334-7
Copper	9.80%	7440-50-8	231-159-6
Aluminum	5.56%	7429-90-5	231-072-3
Ethylene carbonate	2.72%	96-49-1	202-510-0
Styrene-butadiene rubber	1.78%	9003-55-8	618-370-2
Polyvinylidene fluoride	1.15%	24937-79-9	607-458-6
Polypropylene	0.78%	9003-07-0	618-352-4
Polyethylene	0.06%	9002-88-4	618-339-3

#### SECTION4 FIRST-AID MEASURES

##### Skin Exposure:

If in contact with the internal materials of battery, remove the contaminated clothing, shoes and socks, immediately flush with plenty of water for at least 20 minutes. Call a physician.

##### Eye Exposure:

If in contact with the internal materials of battery, lift your eyelids immediately and rinse them with running water for more than 20 minutes. Call a physician.

##### Inhalation Exposure:

If the internal materials of battery are inhaled, immediately remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician.

##### Oral Exposure:

Do not induce vomiting if the internal materials of battery are swallowed. Call a physician immediately.

##### Most Important Symptoms/Effects, Acute and Delayed:

No data available.

##### Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary:

No data available.

#### SECTION5 FIRE FIGHTING MEASURES

##### Suitable Extinguishing Media:

Suitable: Water spray or regular foam.

##### Specific Hazards Arising from the Chemical:

May decompose upon combustion to generate irritating, corrosive or toxic fumes. Fumes may cause dizziness or suffocation.

##### Special Protective Action for Fire-fighters:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place.

#### SECTION6 ACCIDENTAL RELEASE MEASURES

##### Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Entry to noninvolved personnel should be controlled around the leakage area by roping off. Remove all sources of ignition.



**Environmental Precautions:**

Avoid leakage getting into the earth, ditches or waters. Avoid directly releasing the washing waste-water into the environment.

**Methods and Materials for Containment and Cleaning up:**

If the electrolyte leaks, use soil, sand or other non-combustible materials to absorb. The leaked batteries and dirty adsorbents should be placed in metal containers.

**SECTION7 HANDLING AND STORAGE****Precautions for Safe Handling:**

Operators should be trained and strictly abide by operating procedures. Wear appropriate protective clothing and safety gloves. Keep away from ignition sources, heat and flame. No smoking at working site. Handling is performed in a well ventilated place. Avoid disassembling the battery at will and reversing battery polarity within the battery assembly. The battery must be firmly packed in inner packaging so as to effectively prevent short circuits and short circuits caused by movement. If the electrolyte leaks, avoid directly contacting with eyes and skin. Avoid inhalation. Incompatibilities: Strong oxidizing agents, combustible materials and corrosives.

**Conditions for Safe Storage, Including Any Incompatibilities:**

Store in a cool, dry, and well-ventilated area. Keep away from ignition sources, heat and flame. Incompatibilities: Strong oxidizing agents, combustible materials and corrosives. The battery must be firmly packed in inner packaging so as to effectively prevent short circuits and short circuits caused by movement. Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

**SECTION8 EXPOSURE CONTROL/PPE****Control Parameters:**

GBZ 2.1-2019 Occupational Exposure Limits for Hazardous Agents in the Workplace - Part 1: Chemical Hazardous Agents:

Soluble nickel compounds: PC-TWA 0.5mg/m<sup>3</sup> Remarks: G1 (Nickel compounds), Sensitization

Manganese and its inorganic compounds (calculated as MnO<sub>2</sub>): PC-TWA 0.15 mg/m<sup>3</sup>

Cobalt and compounds, as Co PC-TWA 0.05mg/m<sup>3</sup>, PC-STEL 0.1mg/m<sup>3</sup> (Remarks: G2B) Sensitization

Graphite dust: PC-TWA 4mg/m<sup>3</sup> (total dust), PC-TWA 2mg/m<sup>3</sup> (respiratory dust)

Copper (calculated as Cu) : Copper dust PC-TWA 1 mg/m<sup>3</sup>; Copper smoke PC-TWA 0.2 mg/m<sup>3</sup>

Aluminum metal, aluminum alloy dust: PC-TWA 3 mg/m<sup>3</sup> (Total dust)

Polypropylene dust: PC-TWA 5mg/m<sup>3</sup> (total dust)

Polyethylene dust: PC-TWA 5 mg/m<sup>3</sup> (total dust)

ACGIH:

Cobalt and compounds, as Co: TLV-TWA 0.02 mg/m<sup>3</sup>, Inhalable particulate matter

Graphite : TLV-TWA 2 mg/m<sup>3</sup>

Copper: TLV-TWA 1 mg (Cu) /m<sup>3</sup> Dust, smoke; TLV-TWA 0.2 mg (Cu) /m<sup>3</sup> , smoke

Aluminum: TLV-TWA 1 mg/m<sup>3</sup>

**Appropriate Engineering Controls:**

Mechanical exhaust required. Safety shower and eye bath.

**Individual Protection Measures:****Eye/Face Protection:**

Wear chemical safety glasses if needed.

**Skin Protection:**

Hand Protection: Wear safety gloves.

Body Protection: Wear appropriate protective clothing.

**Respiratory Protection:**

Wear government approved respirator if needed.

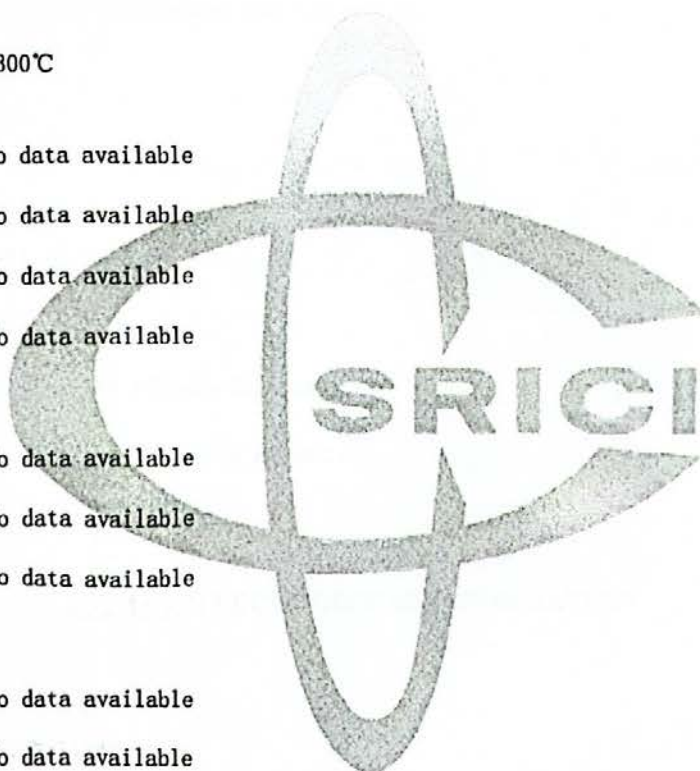


**Thermal Hazards:**

No data available.

**Other Protect:**

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

**SECTION9 PHYSICAL/CHEMICAL PROPERTIES****Appearance:** Green and black cylinder plastics film shell**Odor:** Odorless**pH Value:** 8-9**Solubility:** Partial soluble in water**Boiling Point,** No data available**Initial Boiling****Point and Boiling****Range:****Melting** >300°C**Point/Freezing****Point:** No data available**Flash Point** No data available**(Closed Cup):****Density/Relative** No data available**Density:** No data available**Kinematic** No data available**Viscosity:** No data available**Lower/Upper** No data available**Explosion****Limit/Flammabili****ty Limit:** No data available**Vapour Pressure:** No data available**Relative Vapor** No data available**Density:** No data available**Partition** No data available**Coefficient****N-Octanol/Water(****Log Value):** No data available**Autoignition** No data available**Temperature:** No data available**Decomposition** No data available**Temperature:** No data available**Particle** No data available**Characteristics:****Flammability** No data available**(Solid, Gas):****SECTION10 STABILITY AND REACTIVITY****Reactivity:**

No data available.

**Chemical Stability:**

Stable under normal temperatures and pressures.

**Possibility of Hazardous Reactions:**

No data available.

**Conditions to Avoid:**

Avoid misoperation, exposure to heat and open flame. Avoid mechanical or electrical abuse and overcharge.  
Prevent short circuits and short circuits caused by movement.

**Incompatible Materials:**

Strong oxidizing agents, combustible materials and corrosives.

**Hazardous Decomposition Products:**

Carbon oxides, metal oxides, etc.

**SECTION11 TOXICOLOGICAL INFORMATION****Acute Toxicity:**

No data available.

**Skin Corrosion/Irritation:**

The electrolyte in the battery causes skin irritation.

**Serious Eye Damage/Irritation:**

The electrolyte in the battery causes eye irritation.

**Respiratory Sensitization:**

No data available.

**Carcinogenicity:**

No data available.

**Skin Sensitization:**

No data available.

**Germ Cell Mutagenicity:**

No data available.

**Reproductive Toxicity:**

No data available.

**Specific Target Organ Toxicity -Single Exposure:**

No data available.

**Specific Target Organ Toxicity -Repeated Exposure:**

No data available.

**Aspiration Hazard:**

No data available.

**SECTION12 ECOLOGICAL INFORMATION****Toxicity:**

No data available.

**Persistence and Degradability:**

No data available.

**Bioaccumulative Potential:**

No data available.

**Mobility in Soil:**

No data available.

**Other Adverse Effects:**

No data available.

**SECTION13 DISPOSAL CONSIDERATION****Disposal Methods:**

The disposal of discarded battery shall comply with the requirements of relevant laws, regulations, policies and standards such as the "Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste" and "Technical Policy for the Prevention and Control of Waste Battery Pollution". Contact a licensed professional waste disposal service to dispose of wastes. Used battery being transported for disposal or reclamation should be carefully checked prior to shipment to ensure the integrity of each battery and its suitability for transport.

## SECTION14 TRANSPORT INFORMATION

**Lithium Battery  
Contained in  
Flashlight during  
Transport:**

The product has passed the test items of Manual of Tests and Criteria Section UN 38.3. The total net weight of the lithium batteries is less than 5 kg.

**RID/ADR (2023  
Edition):**

The product is not subject to the other provisions of RID/ADR according to special provision 188.

According to 2.2.9.1.7(g), Manufacturers and subsequent distributors of cells or batteries manufactured shall make available the test summary as specified in the Manual of Tests and Criteria, Part III, sub-section 38.3, paragraph 38.3.5.

**IATA DGR (65<sup>th</sup>  
Edition):**

The product shall meet the General Requirements and section II of Packaging Instruction 967.

According to 3.9.2.6.1(g), Manufacturers and subsequent distributors of cells or batteries manufactured after 30 June 2003 shall make available the test summary as specified in the Manual of Tests and Criteria, Part III, sub-section 38.3, paragraph 38.3.5.

**IMO IMDG  
CODE (2022  
Edition):**

The product is not subject to the other provisions of IMO IMDG CODE according to special provision 188.

According to 2.9.4.7, Manufacturers and subsequent distributors of cells or batteries manufactured shall make available the test summary as specified in the Manual of Tests and Criteria, Part III, sub-section 38.3, paragraph 38.3.5.

## SECTION15 REGULATORY INFORMATION

**Domestic Regulations:**

**Lithium Battery contained in Equipment during Transport:**

**Regulations Concerning Road Transportation of Dangerous Goods (JT/T 617-2018) :**

UN Number: UN3481

Name and Description: Lithium ion batteries contained in equipment

The product has passed the test items of Manual of Tests and Criteria Section 38.3. The product is not subject to JT/T 617-2018 according to special provision 188.

**List of Dangerous Goods (GB 12268-2012) :**

UN Number: UN3481

Shipping Name: Lithium ion batteries contained in equipment

Packing Group: II

The product has passed the test items of Manual of Tests and Criteria Section 38.3.

The product is not subject to GB 12268-2012 according to special provision 188.

**List of Dangerous Goods by Rail (TB/T 30006-2022):**



Number: 91046

Name of Product: Lithium ion batteries contained in equipment

The product has passed the test items of Manual of Tests and Criteria Section 38.3.

The product is not subject to TB/T 30006-2022 according to special provision 78, 79.

#### International Regulations:

#### Directive (EU)2023/1542 and 2013/56/EU:

The label, disposal and recycling of the battery shall meet the requirements of EU Directive (EU)2023/1542 and 2013/56/EU.

#### ICAO TI:

1. Unless be exempted according to ICAO TI, the lithium ion cell/batteries (UN 3480, PI 965) and lithium metal cell/batteries (UN 3090, PI 968) are forbidden for carriage on passenger aircraft.
2. Unless be approved according to ICAO TI, Lithium ion cells/batteries (UN 3480, PI 965) must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity.

### SECTION16 OTHER INFORMATION

#### Preparation Date:

2024-05-21

#### Preparation Department:

Shanghai Institute of Chemical Industry Testing Co., Ltd.

Tel(Fax):+86-21-52815377/31765555

#### Revision:

0

#### Abbreviations and Acronyms:

CAS: Chemical Abstracts Service EC: European Commission ACGIH: American Conference of Governmental Industrial Hygienists PC-TWA: Permissible concentration-time weighted average PC-STEL: Permissible concentration-short term exposure limit G1: Carcinogenic to humans G2B: Possibly carcinogenic to humans Sensitization: The substance may have allergenic effects TLV-TWA: Threshold limit value-time weighted average ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulations concerning the International Carriage of Dangerous Goods by Rail IMO IMDG CODE: International Maritime Organization International Maritime Code for Dangerous Goods IATA DGR: International Air Transport Association Dangerous Goods Regulations EU: European Union EmS: Emergency schedule ICAO TI: International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air PI: Packaging Instruction

#### Other Information:

This SDS is only compiled for battery and based on the information such as ingredients provided by the applicant and our current knowledge. This SDS shall be used only as a guide. If the battery is used as a component in another product, the information in this SDS may not be applicable. The users of this SDS must make independent judgments on the correctness and completeness and then decide its suitability according to the actual situation. The users should take the relevant legal responsibilities for the consequences of use.





\*\*\*END OF REPORT\*\*\*

