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SAFETY DATASHEET

Product Name: Rechargeable Li-ion Battery Pack LBF2010
18V DC 20V Max 10Ah 180Wh

Effective Date: 2026-01-29

Compiler: Linjia wei

Checker: Liu Wangqing

Approver: Dongxuesheng



Shanghai Institute of Chemical Industry Testing Co., Ltd.



Zhejiang Sunseeker Industrial Co.,Ltd.

SAFETY DATA SHEET

Rechargeable Li-ion Battery Pack LBF2010 18V DC 20V Max 10Ah 180Wh

SECTION1 IDENTIFICATION

Product name:	Rechargeable Li-ion Battery Pack LBF2010 18V DC 20V Max 10Ah 180Wh
Company:	Zhejiang Sunseeker Industrial Co.,Ltd.
Address:	988, Jinde Rd, Jiangdong Industrial Park, Jinhua, Zhejiang, 321000, China
E-mail:	js68@sunseekerpower.cn
Fax:	+86-579-83812697
Emergency Phone:	86-579-89103183
Recommend use of the chemical and restrictions on use:	/
SDS Number:	262630106938
Effective Date:	2026-01-29

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 battery's electrolyte 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: Rechargeable Li-ion Battery Pack LBF2010 18V DC 20V Max 10Ah 180Wh

Ingredient	Concentration (%)	CAS NO.	EC NO.
Lithium Nickel Oxide	25-35	12325-84-7	/
Graphite (C)	20-30	7782-42-5	231-955-3
Iron	10-20	7439-89-6	231-096-4
Copper	5-15	7440-50-8	231-159-6
cobalt lithium dioxide	1-5	12190-79-3	235-362-0
Methyl propanoate	1-5	554-12-1	209-060-4
Aluminium	1-5	7429-90-5	231-072-3
lithium hexafluorophosphate(1-)	1-3	21324-40-3	244-334-7
4-Fluoro-1,3-dioxolan-2-one	1-3	114435-02-8	483-360-5
dimethyl carbonate	1-3	616-38-6	210-478-4
Polyethylene	1-3	9002-88-4	618-339-3
diiron trioxide	0.1-1	1309-37-1	215-168-2
Boehmite (Al(OH)O)	0.1-1	1318-23-6	215-284-3
Carbon black	0.1-1	1333-86-4	215-609-9
Nickel	0.1-1	7440-02-0	231-111-4
Aluminum lithium oxide (LiAlO)	0.1-1	11089-89-7	/
Chromium	0.1-1	7440-47-3	231-157-5
lithium carbonate	0.1-1	554-13-2	209-062-5
ethylbenzene	0.1-1	100-41-4	202-849-4

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:

In case of the internal battery's materials in contact with eyes, lift your eyelids immediately and rinse them with running water for more than 20 minutes. If irritation persists, call a physician.

Inhalation Exposure:

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

Oral Exposure:

If swallowed the internal battery's materials, do not induce vomiting. 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 enter the earth, ditches or waters. Avoid directly release the cleaning 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. Such batteries must be packed in inner packaging in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits. In case of leakage of the material in the battery, avoid directly contact 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. Such batteries must be packed in inner packaging in such a manner as to effectively prevent short

circuits and to prevent movement which could lead to short circuits. Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

SECTION8 EXPOSURE CONTROL/PPE

Control Parameteeters :

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

Lithium Nickel Oxide:Lithium-rich Nickel Oxide PC-TWA 0.5mg/m³ Remarks G1(Nickel compounds), Sensitization

Graphite (C):Graphite dust PC-TWA(Total dust) 4mg/m³ PC-TWA(Inhalable dust) 2mg/m³

Copper:Copper, as Cu Copper dust PC-TWA 1 mg/m³ Copper fume PC-TWA 0.2mg/m³

cobalt lithium dioxide:Cobalt and compounds, as Co PC-TWA 0.05mg/m³ PC-STEL 0.1mg/m³ Remarks G2B; Sensitization

Aluminium:Aluminum dust: Metal & alloys dust PC-TWA(Total dust) 3mg/m³

Polyethylene:Polyethylene dust PC-TWA(Total dust) 5mg/m³

Carbon black:Carbon black dust PC-TWA(Total dust) 4mg/m³ Remarks G2B

Nickel :Nickel metal and insolublecompounds PC-TWA 1mg/m³ Remarks G2B (Metals and Alloys)

ethylbenzene :Ethyl benzene PC-TWA 100mg/m³ PC-STEL 150mg/m³ Remarks G2B

ACGIH:

Graphite (C):Graphite, natural TLV-TWA 2 mg/m³, R

Copper:Copper dusts and mists TLV-TWA 1 mg/m³ Copper fume TLV-TWA 0.2mg/m³

Aluminium:Aluminum TLV-TWA 1 mg/m³, R

diiron trioxide:Iron oxide (Fe2O3) TLV-TWA 5 mg/m³, R

Carbon black:Carbon black TLV-TWA 3 mg/m³, I

Nickel :Nickel TLV-TWA 1.5 mg/m³, I

Chromium :Chromium metal TLV-TWA 0.5mg/m³, as Cr

ethylbenzene :Ethyl benzene TLV-TWA 20ppm(87mg/m³) Remarks OTO

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:	Blue Plastic film shell.
Odor:	Odorless
pH Value:	8-9
Solubility:	partial soluble in water
Melting Point/Freezing Point:	>300°C
Boiling Point, Initial Boiling Point and Boiling Range:	No data available.
Flash Point (Closed Cup):	No data available.
Density/Relative Density:	No data available.
Kinematic Viscosity:	No data available.
Lower/Upper Explosion Limit/Flammability Limit:	No data available.
Vapour Pressure:	No data available.
Relative Vapor Density:	No data available.
Partition Coefficient N-Octanol/Water (Log Value):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Particle Characteristics:	No data available.
Flammability (Solid, Gas):	No data available.

SECTION 10 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. Prevent movement which could lead to short circuits.

Incompatible Materials:

Strong oxidizing agents, Combustible materials and Corrosives.

Hazardous Decomposition Products:

Carbon oxides, metal oxides, etc.

SECTION11 TOXICOLOGICAL INFORMATIO

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

Only Lithium Battery during Transport:

The product has passed the test items of Manual of Tests and Criteria Section 38.3. The total net weight of the Lithium batteries is less than 35 kg.

RID/ADR(2025 Edition):

Hazard Class: 9
UN Number: UN3480

Proper Shipping Name: Lithium ion batteries
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(67th Edition):

Hazard Class: 9
UN Number: UN3480

Proper Shipping Name: Lithium ion batteries
The product shall meet the General Requirements and section IA of Packaging Instruction 965.
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(2024 Edition):

Hazard Class: 9
UN Number: UN3480

Proper Shipping Name: Lithium ion batteries
EmS Number: F-A, S-I
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:

Only Lithium Battery during Transport:

The product has passed the test items of Manual of Tests and Criteria Section 38.3. The total net weight of the Lithium batteries is less than 35 kg.

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

UN Number: UN3480

Name and Description: Lithium ion batteries

List of Dangerous Goods (GB 12268-2025) :

UN Number: UN3480

Proper Shipping Name: Lithium ion batteries

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

Number: 91045

Name of Product: Lithium ion batteries

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.

SECTION 16 OTHER INFORMATION

Preparation Date:

2026-01-29

Preparation Department:

Shanghai Institute of Chemical Industry Testing Co., Ltd.
Tel (Fax) : +86-21-52815377/31765555

Revision:

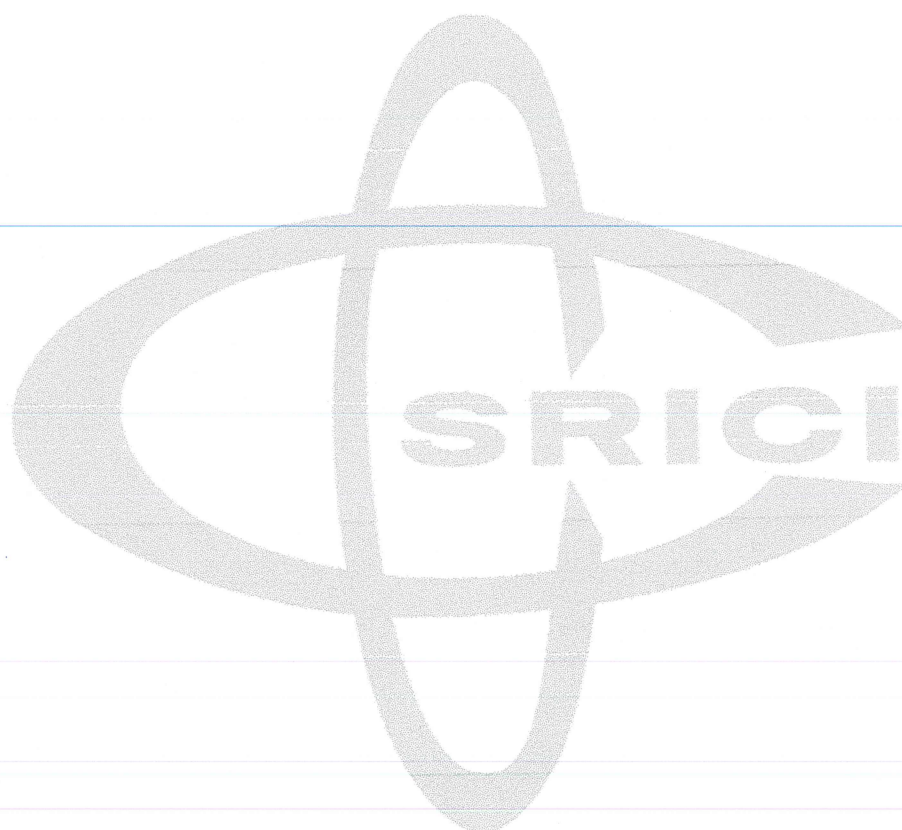
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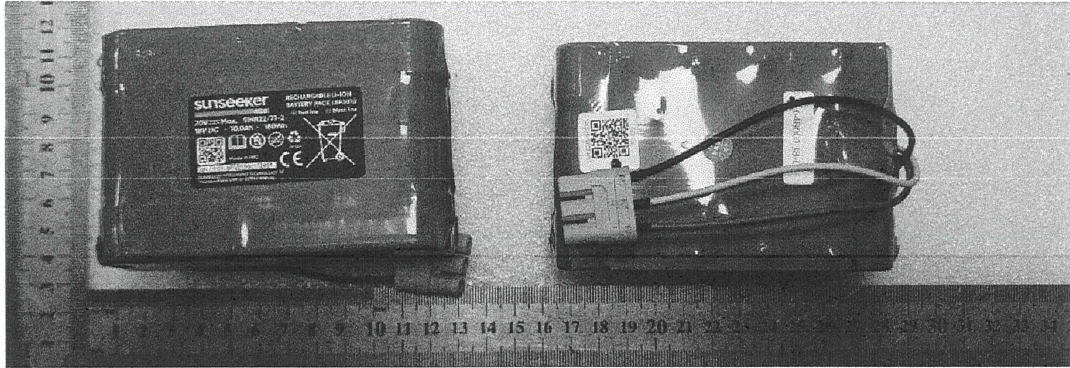
Abbreviations and Acronyms:

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: Time weighted average threshold limit R: Measured as respirable fraction of the aerosol RID: Regulations concerning the International Carriage of Dangerous Goods by Rail ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMO IMDG CODE: International Maritime Organization International Maritime Code for Dangerous Goods IATA DGR: International Air Transport Association Dangerous Goods Regulations EU: European Union ICAO TI: International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air PI: Packaging Instruction I: Measured as Inhalable fraction of the aerosol OTO: Ototoxicant

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.





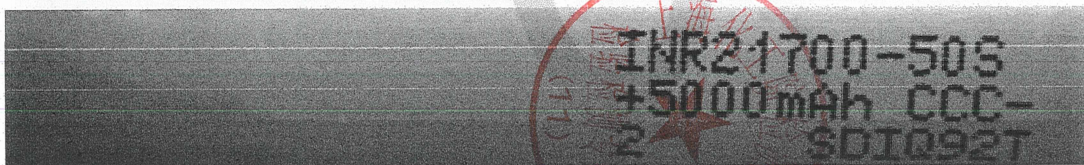
sunseeker RECHARGABLE LI-ION BATTERY PACK LBF2010
elite

20V --- Max. 51NR22/71-2 \oplus Red line \ominus Black line
18V DC · 10.0Ah · 180Wh

QR code, Open book icon, No fire icon, No water icon, Recycle icon, Li-ion, CE, No trash icon

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END OF REPORT