

## Safety Data Sheets (SDSs)

Product Name: Lithium ion battery pack

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Commissioner: Hangzhou Dongjian Energy Tech Co.,Ltd

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**CVC Testing Technology Co., Ltd.**

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Name of Product	Lithium ion battery pack
Type/Model	DJ-2410 24V 10Ah 240Wh
Commissioned by	Hangzhou Dongjian Energy Tech Co.,Ltd
Commissioner address	Qunli Village,Guali Town,Xiaoshan District,Hangzhou City,Zhejiang
Supplier	Hangzhou Dongjian Energy Tech Co.,Ltd
Supplier address	Qunli Village,Guali Town,Xiaoshan District,Hangzhou City,Zhejiang
Inspection according to	Globally Harmonized System of Classification and Labelling of Chemicals (GHS, Rev.9)
Emergency telephone number	0571-83520908
Remarks	-
Seal of CVC	
Date of issue: 2022-07-13	

Approved by: Huang Kun

*Huang Kun*

Reviewed by: Zhang Siyao

*Zhang Siyao*

Tested by:

Liu Zhen

*Liu Zhen*

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

Product name: Lithium ion battery back

Model: DJ-2410

### Other means of identification

Synonyms: none

### Relevant identified use of Product and uses advised against

Recommended Use: Electric wheelchair, outdoor power supply, etc

Uses advised against: Don't disassemble, impact, crush, put into fire or water, don't use above 60 °C!

### Details of the Supplier of the safety data sheet:

Name: Hangzhou Dongjian Energy Tech Co.,Ltd

Address: Qunli Village, Guali Town, Xiaoshan District, Hangzhou City, Zhejiang

Telephone: 13777378858

E-mail address: 13777378858@139.com

### Emergency telephone number

Company Emergency Phone Number: 0571-83520908

## SECTION 2: HAZARDS IDENTIFICATION

### Classification

The watt-hour rate of the battery is 240Wh, it is belong to Class 9 dangerous goods.

*The product is tested according to Section 38.3 of the Recommendations on the Transport of Dangerous Goods, the test report number: RZUN2022-2941*

### Other information

Caution! Avoid short circuit, place in high temperature environment, put into water, or damage the shell.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterization:** Mixtures

**Description:** Chemical power supply based on nonaqueous electrolyte. Composed by positive electrode, negative electrode, diaphragm, electrolyte, and shell.

Hazardous ingredients:

Common Chemical Name	Chemical Formula	Weight %	CAS No.	EC No.
Lithium nickel cobalt manganate	$\text{Li}(\text{NiCoMn})\text{O}_2$	15-30%	113066-89-0	/
Aluminum	Al	5-10%	7429-90-5	231-072-3

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Graphite	C	10-25%	7782-42-5	231-955-3
Electrolyte	/	10-30%	623-53-0/ 21324-40-3	613-014-2/ 244-334-7
Copper	Cu	7-13%	7440-50-8	231-159-6
Poly Vinylidene Fluoride (PVDF)	PVDF	1-3%	24937-79-9	607-458-6
Acetylene Black	C	1-3%	1333-86-4	215-609-9
Nickel	Ni	1-5%	7440-02-0	231-111-4
Lead	Pb	N/A	7439-92-1	231-100-4
Cadmium	Cd	N/A	7440-43-9	231-152-8
Mercury	Hg	N/A	7439-97-6	231-106-7

Note: N/A=Not apply.

## SECTION 4: FIRST-AID MEASURES

### First aid measures

Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin Contact: Remove contaminated clothing and shoes. Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Inhalation: Move to fresh air. If symptoms persist, call a physician.

Ingestion: Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Swallowing: Do not induce vomiting. Get medical attention.

### Most Important Symptoms/Effects

No information available.

### Indication of any immediate medical attention and special treatment needed

Inform physician. Treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

CO<sub>2</sub>, dry chemical powder, wet sand, plenty of water (for cooling).

Unsuitable Extinguishing Media: No information available.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. For example: Wear self-contained respiratory protective device. Wear suitable protective clothing and eye/face protection.

### Special hazards arising from the substance or mixture:

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Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature ( $>150^{\circ}\text{C}$ ), When damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

Personal Precautions Avoid contact with eyes.

Refer to section 8 for personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

Evacuate personnel to safe areas.

### **Environmental precautions**

Environmental Precautions Refer to protective measures listed in Sections 7 and 8.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

### **Methods and material for containment and cleaning up**

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning up Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other Non-combustible absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

## SECTION 7: HANDLING AND STORAGE

### **Precautions for safe 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.

### **Conditions for safe storage, including any incompatibilities**

Store in a cool, well-ventilated area. 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. Materials to Avoid: Strong oxidizing agents, Corrosives.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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## **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 and chemical properties**

Physical State	Form: Irregular shape	
	Color: Black	
	Odour: Odourless	
	Odor Threshold: No information available	
Change in condition:		
pH, with indication of the concentration		Not determined.
Melting point/freezing point		Not determined.
Initial boiling point and Boiling range:		Not determined.
Flash Point		Not determined.
Flammability (solid, gas)		Not determined.
Upper/lower flammability or explosive limits		Not determined.
Auto-ignition temperature		Product is not self-igniting.
Decomposition temperature		Not determined.
Other Information		No further relevant information available.

## **SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** Stable under recommended storage and handling conditions (see section 7).

**Chemical stability:** Stable under normal conditions of use, storage and transport.

**Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of Hazardous Reactions:** None under normal processing.

**Hazardous Polymerization:** Hazardous polymerization does not occur.

**Conditions to avoid:** Strong heating, fire, Incompatible materials.

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**Incompatible materials:** Strong oxidizing agents. Strong acids.

**Hazardous Decomposition Products:** Carbon oxides, other irritating and toxic gases.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Acute toxicity:** No data available.

**Skin corrosion/irritation:** No irritant effect.

**Serious eye damage/irritation:** Cause serious eye irritation.

**Respiratory or skin sensitization:** No sensitizing effects known.

**Specific target organ system toxicity:** No information available.

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

## SECTION 12: ECOLOGICAL INFORMATION

**Toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

**Results of PBT and vPvB assessment:**

PBT: Not applicable.

vPvB: Not applicable.

**Other adverse effects:** No information available.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste treatment methods**

Recommendation: 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.

**Other disposal recommendations:**

Recommendation: Disposal must be made according to official regulations.

## SECTION 14: TRANSPORT INFORMATION

The product had been tested according to the requirements of the UN manual of tests and Criteria, Part III, subsection 38.3.(see section 2)

**EmS No:** F-A ,S-I

**Marine pollutant:** No

**Environmental hazards:** Not applicable.

**Special precautions for user:** Not applicable.

**Proper Shipping name:** Lithium ion batteries (Including lithium ion polymer batteries)

**Hazard Class:** Class 9

**UN/ID Number:** UN3480

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**Packaging Group:** II

## **Air transport**

**Label for conveyance:** Class 9 lithium battery hazard label, Cargo Aircraft Only Label

The goods are complied with the requirements of Section IA of Packing Instruction 965 of 63rd DGR Manual of IATA (2022 Edition) .

## **Maritime transport**

**Label for conveyance:** Class 9 lithium battery hazard label

The goods are complied with the requirements of Packing Instruction P903 of IMDG CODE (Amdt. 40-20) (2020 Edition)

## **Land transport**

**Label for conveyance:** Class 9 lithium battery hazard label

The goods are complied with the requirements of Packing Instruction P903 of Agreement concerning the International Carriage of Dangerous Goods by Road (ADR 2021)

**Proper Shipping name:** Lithium ion batteries contained in equipment (Including lithium ion polymer batteries)

**ICAO/IATA Class:** Class 9

**UN/ID Number:** UN3481

**Packaging Group:** N/A.

## **Air transport**

**Label for conveyance:** Class 9 lithium battery hazard label

The goods are complied with the requirements of Section I of Packing Instruction 967 of 63rd DGR Manual of IATA (2022 Edition) .

## **Maritime transport**

**Label for conveyance:** Class 9 lithium battery hazard label

The goods are complied with the requirements of Packing Instruction P903 of IMDG CODE (Amdt. 40-20) (2020 Edition)

## **Land transport**

**Label for conveyance:** Class 9 lithium battery hazard label

The goods are complied with the requirements of Packing Instruction P903 of Agreement concerning the International Carriage of Dangerous Goods by Road (ADR 2021)

## **SECTION 15: REGULATORY INFORMATION**

### **International Regulation:**

Globally Harmonized System of Classification and Labelling of Chemicals  
Recommendations on the Transport of Dangerous Goods Model Regulations  
IATA Dangerous Goods Regulations (DGR)  
International Maritime Dangerous Goods (IMDG CODE)

### **EU Regulation:**

EU regulation (EC) 1272/2008 on "Classification, Labelling and Packaging of

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Substances and Mixtures" (CLP)

Registration, Evaluation and Authorization of Chemicals (REACH)

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

## US Regulation:

American National Standard for Hazardous Workplace Chemicals – Hazard Evaluation and Safety Data Sheet and Precautionary Labeling Preparation

## SECTION 16: OTHER INFORMATION

This file is only effective to the batteries (DJ-2410) provided by commissioner Hangzhou Dongjian Energy Tech Co.,Ltd, which manufactured by Hangzhou Dongjian Energy Tech Co.,Ltd, The commissioner provides the composition information of batteries, and promises its integrity and accuracy. Users should read this file carefully and use the batteries in correct method. CVC Testing Technology Co., Ltd. (CVC) doesn't assume responsibility for any damage or loss because of misuse of batteries.

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## Important

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4. The test report is invalid if altered.
5. Objections to the test report must be submitted to CVC within 15 days.
6. This report is valid for the samples provided by commissioner only.

*The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.*

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