

Safety Data Sheet

Name and model of the sample Lithium-polymer battery YJ832936
(3.8 V 1,170 mAh 4.446 Wh)

Applicant YJ POWER GROUP LIMITED

Address Room 101, Block 1, No. 35 Fuxing Road, Chang'an Town,
Dongguan City, Guangdong, China



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80530198
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Material Safety Data Sheet

Reference to ST/SG/AC.10/30/Rev.10 (GHS)

Section 1. Identification of the chemical product and the company

Identification of the chemical product

Name of the sample: Lithium polymer

battery Model of the sample: YJ832936

Recommended use: Not specified

Restrictions on use: Not specified

Manufacturer: DONGGUAN YO ENERGY CO., LTD.

Address: 35 Fuxing Road, Xiangang Community, Changan Town, Dongguan, 523000, Guangdong, China

Telephone number: +86-134-80935393

Fax: –

Email address: Tina@yjbattery.com

Emergency telephone number: +86-769-81158580

Section 2. Hazard Identification

Emergency overview: This product is a rechargeable battery. Use of the product as intended should not result in exposure to the chemical substance. In the event of a rupture, the following hazards exist.

Hazard classification according to GHS

Acute toxicity, oral (4)

Skin corrosion/irritation (2)

Serious eye damage/eye irritation (2A)

Specific target organ toxicity – single exposure, respiratory tract irritation (3)

Labelling elements Hazard pictogram(s):

Signal word:



Hazard statements:

H302 Harmful if swallowed H315 Causes skin irritation

H319 Causes severe eye irritation H335

May cause respiratory irritation

Precautionary statement(s):



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Prevention:

P264 Wash skin and clothing thoroughly after use. P270 Do not eat, drink or smoke whilst using this product.

P280 Wear protective gloves, protective clothing, eye protection and face protection. P261 Avoid inhaling dust, fumes, gas, mist, vapour or aerosol.

P271 Use only outdoors or in well-ventilated areas.

Measures:

P301 + P312: IF SWALLOWED: If you feel unwell, call a POISON INFORMATION CENTRE.

P330 Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of water. P321 Specific treatment (see additional instructions for emergencies).

P333 + P313 If skin irritation or rash occurs: Seek medical advice/attention. P362 + P364 Remove contaminated clothing and wash before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Seek medical advice/attention. P304 + P340 IF INHALED: Move the affected person to fresh air and ensure unobstructed breathing.

P312 If you feel unwell, call a POISON INFORMATION CENTRE.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Keep under lock and key.

Disposal:

P501 Dispose of contents at authorised waste treatment facilities.

Other hazards

Physical and chemical hazards: See Section 10 Hazards to human health: See Section 11 Environmental hazards: See Section 12

Section 3. Composition/information on ingredients

Chemical characterisation: Mixture

Chemical composition	CAS No.	EC No.	Weight (%)
Lithium cobalt oxide	12190-79-3	235-362-0	40.778
Industrial carbon black	1333-86-4	215-609-9	2,515
Polyvinylidene fluoride resin	24937-79-9	607-458-6	1,988
Graphite	7782-42-5	231-955-3	20,243

Carboxymethylcellulose ether	9000-11-7	618-326-2	1,208
Styrene-butadiene rubber, vapour	61789-96-6	612-382-1	1,081
Aluminium	7429-90-5	231-072-3	4,451
Copper	7440-50-8	231-159-6	8,405
Lithium hexafluorophosphate	21324-40-3	244-334-7	19,331

Section 4. First aid measures

Description of first aid measures

General information: No special measures required.

If the product comes into contact with the eyes

Rinse eyes with plenty of water for several minutes whilst keeping the eyelids open. Seek medical attention if irritation persists.

If on the skin

Remove contaminated clothing and shoes. Wash immediately with soap and water and rinse thoroughly. Wash clothing and shoes before wearing them again. Seek medical advice if irritation occurs.

If inhaled

Move the affected person to fresh air. If breathing is difficult, administer artificial respiration. Seek medical attention.

If swallowed

Do not induce vomiting. Seek medical advice if irritation persists.

Personal protective equipment for first aiders: No data available.

Most important acute and delayed symptoms and effects: No data available.

Indications of the need for immediate medical attention or special treatment: Treat symptoms.

Section 5. Fire-fighting measures

Suitable extinguishing media:

Small fire: Dry extinguishing agents, CO₂, water spray or standard foam. Large fire: Water spray, water mist or standard foam. Remove containers from the fire area if this can be done safely.

Unsuitable extinguishing media:

No data available

Specific hazards arising from the chemical:

Special hazards associated with the substance or mixture.

The battery may burst and release hazardous decomposition products if exposed to fire. Lithium-ion batteries contain flammable electrolyte which, at high temperatures (> 150 °C (302 °F)), or if damaged or misused (e.g. mechanical damage or electrical overcharging), may discharge, ignite and produce sparks.



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They can burn rapidly with a torch-like flame and ignite other batteries in the immediate vicinity.

Specific protective measures for firefighters:

Wear self-contained breathing apparatus. Standard firefighter protective clothing offers only limited protection.

Section 6. Accidental release measures

Personal precautions:

As an immediate precaution, cordon off the contaminated area to a radius of at least 25 metres in all directions. Keep unauthorised personnel away. Remain upwind, uphill and/or upstream. Ventilate enclosed spaces before entering. Large-scale release: Consider an initial evacuation downwind over a distance of at least 100 metres.

Protective equipment:

No data available

Emergency measures:

ELIMINATE all sources of ignition (do not smoke; no torches, sparks or flames in the immediate vicinity). Do not touch spilled material or walk through it. Absorb it with earth, sand or other non-combustible material. Spilled batteries and contaminated absorbent material should be stored in metal containers.

Environmental precautions:

Do not allow the material to enter the environment without the appropriate official authorisations.

Methods and materials for containment and cleaning up:

All waste treatment must comply with national and local regulations as well as United Nations regulations for disposal.

See Section 7 for information on safe handling.

See Section 8 for information on personal protective equipment. See Section 13 for information on disposal.

Section 7. Handling and storage

Precautions for handling:

Avoid short-circuiting the battery. Avoid mechanical damage to the battery. Do not open or dismantle the battery. Batteries may explode or cause burns if dismantled, crushed or exposed to fire or high temperatures. Do not short-circuit or install with incorrect polarity. Avoid any personal contact, including inhalation. Wear protective clothing if there is a risk of exposure. Use the battery in a well-ventilated area. Prevent accumulation in depressions and puddles.

Conditions for safe storage, including incompatibilities:

Store in a cool, dry and well-ventilated place. Keep away from heat and avoid prolonged exposure to sunlight.



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Section 8. Exposure control and personal protection

Control parameters

CAS No.	ACGIH	NIOSH	OSHA
12190-79-3	Not specified	Not specified	Not specified
1333-86-4	TLV-TWA 3 mg/m³	REL-TWA 3.5 mg/m³	PEL-TWA 3.5 mg/m³
24937-79-9	Not specified	Not specified	Not specified
7782-42-5	TLV-TWA 2 mg/m³	REL-TWA 2.5 mg/m³	PEL-TWA 15 mppcf PEL-TWA 20 mppcf
9000-11-7	Not specified	Not specified	Not specified
61789-96-6	Not specified	Not specified	Not specified
7429-90-5	TLV-TWA 1 mg/m³	REL-TWA 2 mg/m³ REL-TWA 5 mg/m³ REL-TWA 10 mg/m³	PEL-TWA 5 mg/m³ PEL-TWA 15 mg/m³
7440-50-8	TLV-TWA 0.2 mg/m³ TLV-TWA 1 mg/m³	REL-TWA 1 mg/m³ REL-TWA 0.1 mg/m³	PEL-TWA 0.1 mg/m³ PEL-TWA 1 mg/m³
21324-40-3	Not specified	Not specified	Not specified

Appropriate technical control measures:

Observe the usual precautions when handling chemicals. Keep away from food, drink and animal feed.

Remove soiled and contaminated clothing immediately.

Wash your hands before breaks and at the end of the working day.

Personal protective equipment:

Respiratory protection: Wear a suitable protective mask. If there are a large number of leaking batteries, wear chemical-resistant protective clothing. This also includes self-contained breathing apparatus. **Hand protection:** Wear suitable protective gloves to avoid skin contact.

Eye protection: Wear safety goggles or eye protection in combination with respiratory protection. **Skin and body protection:** Required in the working environment. Wear suitable protective clothing to minimise skin contact. The type of protective equipment must be appropriate to the concentration and content of specific hazardous substances in the workplace.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties Colour: Blue.

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Physical state:	Prismatic Not
Odour:	available Not
pH: Melting point/freezing point:	available Not
Boiling point or initial boiling point and boiling range:	available Not
Flash point:	available Not
Flammability:	available Not
Solubility:	available Not
Lower and upper explosion limits/flammability limits: Auto-ignition temperature:	available Not
Decomposition temperature:	available Not
Viscosity:	available Not
n-octanol–water partition coefficient:	available Not
Vapour pressure:	available Not
Density and/or relative density:	available Not
Water vapour density: Particle properties:	available Not
Further information: Voltage	available Not
Electrical capacitance Electrical energy	available
	3.8 V
	1,170 mAh
	4.446 Wh

Section 10. Stability and reactivity

Reactivity: No data available

Chemical stability: Stable

Possibility of hazardous reactions: No data available

Conditions to avoid: Flames, sparks and other sources of ignition, incompatible materials

Incompatible materials: Oxidising agents, acids, bases

Hazardous decomposition products: Carbon monoxide, carbon dioxide, lithium oxide vapours

Section 11. Toxicological information

Acute toxicity:

CAS No.	LC50/LD50
12190-79-3	No data available
1333-86-4	No data available



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24937-79-9	No data available
7782-42-5	No data available
9000-11-7	No data available
61789-96-6	No data available
7429-90-5	No data available
7440-50-8	No data available
21324-40-3	No data available

Skin corrosion/irritation: No data available **Serious eye damage/irritation:** No data available **Respiratory tract/skin sensitisation:** No data available **Germ cell mutagenicity:** No data available **Carcinogenicity:** No data available **Reproductive toxicity:** No data available **Specific target organ toxicity following single exposure:** No data available **Specific target organ toxicity following repeated exposure:** No data available **Aspiration hazard:** No data available **Information on likely routes of exposure:** No data available **Eyes:** No data available **Skin:** No data available **Ingestion:** No data available **Inhalation:** No data available

Section 12. Environmental information

Ecological 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

Section 13. Disposal

Disposal methods:
Recommendation:
Consult state, local or national regulations to ensure proper disposal.
Uncleaned packaging
Recommendation: Dispose of the product in accordance with regulatory requirements.



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Section 14. Transport information

UN or ID number	
IATA	UN3480
IMDG	UN3480
Correct shipping name/description IATA	
IMDG	Lithium-ion battery LITHIUM-ION BATTERY
Class or Division (Partial hazard) IATA	
9	
Packing group IATA	
IMDG	Not specified Not specified
IATA hazard symbol	
IMDG	Not specified
Environmental hazards	
Marine pollutant:	No
IMDG EmS:	F-A. S-I
Special precautions for the user	No information available

Transport information: The YJ832936 lithium-ion polymer battery has passed the UN38.3 test in accordance with report ID MSICOB4G5932307U5.

In accordance with Packing Instruction 965, Section IB of the IATA DGR 65th Edition, transport is permitted by air freight only.

In accordance with Special Provision 188 of the IMDG (41-22), the goods are not subject to any other provisions of this Code.

Batteries must be packed individually to prevent short circuits. The packaging should also be sturdy. Lithium cells or batteries should be fitted with a safety vent or designed in such a way that violent rupture is prevented under normal transport conditions. Keep away from high temperatures and open flames.

Note: The state of charge must not exceed 30% of the rated capacity. (For air transport, lithium-ion batteries)



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Mode of transport: By air, by sea

Section 15. Regulatory information

Regulations on safety, health and environmental protection/specific legal provisions for the substance or mixture

CAS No.	TSCA	IECSC	DSL/NDSL	EINECS/ELINCS/NLP
12190-79-3	Listed	Listed	DSL listed	Listed
1333-86-4	Listed	Listed	DSL listed	Listed
24937-79-9	Listed	Listed	DSL listed	Listed
7782-42-5	Listed	Listed	DSL listed	Listed
9000-11-7	Listed	Listed	DSL listed	Listed
61789-96-6	Listed	Listed	Listed on DSL	Listed
7429-90-5	Listed	Listed	Listed on DSL	Listed
7440-50-8	Listed	Listed	DSL listed	Listed
21324-40-3	Listed	Listed	DSL listed	Listed

Section 16. Other information

Date of issue: 3 July 2024 Issuer:
Technical
Department Change log:

Note to the reader

To the best of our knowledge, the information contained herein is correct. However, neither the above-mentioned supplier nor any of its subsidiaries accepts any liability for the accuracy or completeness of the information contained in this document.

The final decision regarding the suitability of any material rests solely with the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Further information:

CAS: Chemical Abstracts Service

EC: European Commission

ACGIH: American Conference of Governmental Industrial Hygienists
NIOSH: US National Institute for Occupational Safety and Health
OSHA: US Occupational Safety and Health Administration

TLV: Threshold Limit Value



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TWA: Time-weighted average, STEL: Short-term exposure limit, PEL: Permissible exposure limit,
REL: Recommended Exposure Limit,
PC-STEL: Permissible Concentration – Short-Term Exposure Limit,
PC-TWA: Permissible Concentration – Time-Weighted Average,
IARC: International Agency for Research on Cancer,
LC50: Lethal concentration, 50 per cent mortality, LD50: Lethal dose, 50 per cent mortality,
EC50: Median effective concentration, BCF: Bioconcentration factor,
BOD: Biochemical Oxygen Demand,
IECSC: Inventory of Existing Chemical Substances in China, NOEC: No Observed Effect Concentration,
NTP: US National Toxicology Programme,
RTECS: Register of Toxic Effects of Chemical Substances, TOC: Total organic carbon,
TSCA: Toxic Substances Control Act of the USA,
DSL: Canada's Domestic Substances List, NDSL: Canada's Non-Domestic Substances List, IATA: International Air Transport Association,
IMDG: International Maritime Dangerous Goods,
TDG: Recommendations on the Transport of Dangerous Goods – Model Regulations.

Approving authority:

End of report



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