MSDS MSDS Report

Report No.

LA2024B1727052M

Samples	Li-ion Polymer Battery
Model	JYZ 602040
Applicant	Shenzhen Jin yu zhou Energy Co., Ltd.
Effective Date	2025-01-01

Shenzhen Lionaces Technology Co., Ltd.

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Material Safety Data Sheet

GB/T16483-2008&ISO11014:2009 According to GB/T16483-2008&ISO11014:2009

Section 1 - Chemical Product and Company Identification

Chemical produ	ıct inforn	nation				
Sample Name		Li-ion F	Polymer Battery			
Model and		JYZ 602040 3.7V, 400mAh, 1.48Wh				
Sample Uses	Jses N/A					
Company inforn	nation					
Laboratory		Shenzhen Lionaces Technology Co., Ltd.				
Testing Address	3	B6 301 301, Building B6, Junfeng Industrial Zone, Yonghe Road, Heping Community, Fuhai Street, Baoan District, Shenzhen, Guangdong, China				
Applicant	pplicant Shenz		Shenzhen Jin yu zhou Energy Co., Ltd.			
T Anniicant andress		1211 1 802 802, Unit 1, Building 1, Lechuanghui Building, No.1211, Guanguang Road, Guihua Community, Guanlan Street, Longhua District, Shenzhen				
		Shenzh	Shenzhen Jin yu zhou Energy Co., Ltd.			
Manufacturer a	ddress	1211 1 802 802, Unit 1, Building 1, Lechuanghui Building, No.1211, Guanguang Road, Guihua Community, Guanlan Street, Longhua District, Shenzhen			nguang Road,	
Emergency telephone 0755-28230503						
Remark V1.0		V1.0	.0			
Receiving Date		2024-12-04		Completing Date	2024-12-06	
Prepared by	18	ż	Checked by	多强	Approved by	刘俊次

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Section 2 - Hazards Identification

Emergency overview No information available. GHS Classification according to GHS Not a dangerou	(GHS) us substance according to GHS.		
GHS	J		
Label el	ements		
Hazard pictogram(s)	No data available		
Signal word	No data available		
Hazard statement(s)	No data available		
Precautionary statement(s)			
Prevention	No data available		
Response	No data available		
Safe storage	No data available		
Disposal	No data available		
Physical and chemical risk: No information available. Health hazard: No information available.			
Environmental hazards: No information available.			
Other hazards: No information available.			
/ Section 3 - Composition, Information on Ingredients			
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Chemical Composition	CAS No.	Weight %
Lithium Cobalt Oxide	12190-79-3	34.5
Aluminum	7429-90-5	10
() PVDF Polyvinylidene fluoride	24937-79-9	1
Graphite	7782-42-5	17
Copper	7440-50-8	15
SBR Styrene-Butadiene polymer	9003-55-8	2.8
Lithium hexafluorophosphate	21324-40-3	2.5
Ethylene carbonate	96-49-1	5
Dimelene carbonate	616-38-6	5
Carbonate, methyl ethyl	623-53-0	5
Nickel	7440-02-0	2.2

Note CAS Chemical Abstracts Service (Division of the American Chemical Society).
"N/A" No Data

Section 4 - First Aid Measures

General information: No special measures required.

After inhalation: Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

After skin contact: Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

After eye contact: Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

After swallowing: Do not induce vomiting. Get medical attention.

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Acute and delayed effects

The main symptoms: No relevant details information.

Health effects: No relevant details information.

To protect the rescuers advice: No relevant details information.

To the doctor's advice: Need timely medical treatment and special symptoms, no relevant details information.

Section 5 - Fire Fighting Measures

 CO_2

Suitable extinguishing agents: Use extinguishing agent suitable for local conditions and the surrounding environment . Such as dry powder , CO_2 .

(> 150 (302)) ()

Special hazards arising from the substance or mixture: Battery may burst and release hazardous decomposition products when exposed to a fire situation. Battery contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature(>150 (302)), 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.

Attention extinguishing method and protective measures: Wear self-contained respirator. Wear fully protective impervious suit.

Section 6 - Accidental Release Measures

Homework personnel protective measures, protective equipment and emergency disposal procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.

Steps to be taken in case material is spilled or released and Waste disposal method: Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal

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container. Keep spilled material out of sewers, ditches and bodies of water. All waste must refer to the United Nations, the national and local regulations for disposal.

To prevent the secondary disasters prevention measures: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

Section 7 - Handling and Storage

Precautions for safe handling: Consumption of food and beverage should be avoided in work areas. Wash hands with soap and water before eating, drinking. Ground containers when transferring liquid to prevent static accumulation and discharge.

Information about fire and explosion protection: Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

Conditions for safe storage, including any incompatibilities: Requirements to be met by storerooms and receptacles. Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

Section 8 - Exposure Controls, Personal Protection

Occupational exposure limit

Ingredients with limit values that require monitoring at the workplace:			
12190-79-3	Lithium Cobalt Oxide		
TLV (USA)	0.02mg/m ³ .		
MAK(Germany)	0.1mg/m³.		

Note:TLV Threshold Limit Value

Biological limit: no relevant details information.

Detection: no relevant details information.

Engineering control

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General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

Respiratory Protection: Use suitable respirator when high concentrations are present.

Personal Protection

Hand protection	Eye protection
Protective gloves	Tightly sealed goggles

Section 9 - Physical and Chemical Properties

Appearance: Silvery

Form: Approximate cuboid

Odour: If leaking, smells of medical ether

pH: Not applicable as supplied.

Flash Point: Not applicable unless individual components exposed.

Flammability: Not applicable unless individual components exposed.

Relative density: Not applicable unless individual components exposed.

Solubility (water): Not applicable unless individual components exposed

Solubility (other): Not applicable unless individual components exposed.

Section 10 - Stability and Reactivity

Chemical stability Stable in normal circumstances.

Possibility of hazardous reactions Data not available.

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

Incompatibilities: Oxidizing agents, acid, base.

Hazardous Combustible Products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

Section 11 - Toxicological Information

Information on toxicological effects

LC50/LD50

Acute toxicity LD/LC50 Values relevant for classification: Not available.

LC50 lethal concentration, 50 percent kill

LD50 lethal dose, 50 percent kill

Skin irritation/corrosion: No further relevant information available.

Eyes stimulus/corrosion: No further relevant information available.

Breathing or skin irritation: No further relevant information available.

Germ cell respectively: No further relevant information available.

Carcinogenicity: No further relevant information available.

Reproductive toxicity: No relevant details information.

Specific target organ system toxicity disposable contact: No further relevant information available.

Specific target organ system toxicity, repeated contact: No further relevant information available.

Inhalation hazard: No further relevant information available.

Potentially harmful effects: No further relevant information available.

Section 12 - Ecological Information

Ecological toxicity

Aguatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

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Behaviour in environmental systems

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Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Ecological effects

Additional ecological information :No further relevant information available.

General notes:Do not allow material to be released to the environment without proper governmental permits.

Other adverse effects: No further relevant information available.

Section 13 - Disposal Considerations

Waste treatment methods and Recommendation: Consult state, local or national regulations to ensure proper disposal.

Uncleaned packaging and Recommendation: Disposal must be made according to official regulations.

Section 14 - Transport Information

Label for conveyance: Battery Labe	, or Lithium Battery or Sodium	Ion Battery Class 9 Label, or
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Cargo Aircraft only
UN 3480 & 3481
UN Number: 3480 & 3481

N/A

Packaging Group: N/A

Marine pollutant: No

(

Proper Shipping name: Lithium Ion Battery (Including Lithium Polymer Battery), Lithium Ion Battery Packed With Equipment, Lithium Ion Battery Contained In Equipment

: 38.3

LA2023B1220001U

100Wh 20Wh 66 DGR

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965 IB 966~967 II

IMDG CODE (Amdt. 42-24)

2024 188

Transport information: Lithium battery is of a type proved to meet the Requirements of each test in the UN Manual of Tests And Criteria, Part , sub-section 38.3. (Report No. : LA2023B1220001U) The lithium-ion battery with a watt-hour rating not exceeding 100Wh or the cell with the watt-hour rating is not exceeding 20Wh, The lithium-ion battery according to Section IB of Packing Instruction 965, or Section II of Packing Instruction 966~967 of the Dangerous Goods regulations 66th Edition may be transported. The goods shall be complied with the requirements of special provision 188 of IMDG CODE (Amdt. 42-24) 2024 , The goods to be transport as Unrestricted goods.

Section 15 - Regulatory Information

Law information

Dangerous Goods Regulations

Recommendations on the Transport of Dangerous Goods Model Regulations

International Maritime Dangerous Goods

Technical Instructions for the Safe Transport of Dangerous Goods

Classification and code of dangerous goods

Occupational Safety and Health Act (OSHA)

Toxic Substance Control Act (TSCA)

Consumer Product Safety Act (CPSA)

Federal Environmental Pollution Control Act (FEPCA)

The Oil Pollution Act (OPA)

(302/311/312/313)

Superfund Amendments and Reauthorization Act Title (302/311/312/313) (SARA)

Resource Conservation and Recovery Act (RCRA)

Safety Drinking Water Act (CWA)

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California Proposition 65

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Code of Federal Regulations (CFR)
In accordance with all Federal, State and local laws

MSDS (EU) No 2020/878.

This Material Safety Data Sheet complies with the requirements of Regulation (EU) No 2020/878.

Section 16 - Additional Information

Declare to reader

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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Statement

1

This report is invalid without the special seal for report of Lionaces and the signatures of approver.

2

This report is invalid if it is blotted out and deleted.

3

If the applicant has any questions about results, shall submit to Lionaces within 15 days.

4

This report is responsible for the sample provided by the client only.

5

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6

The applicant must provide samples and materials truthfully. All of information such as product information, parameters, drawings, components, etc. are provided by the applicant. Otherwise we will not take on any relevant responsibilities for this report.

----End of report----

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