广州鹏辉能源科技股份有限公司

GREAT POWER 鹏辉能源

Guangzhou Great Power Energy &Technology CO.,LTD.

广东省广州市番禺区沙湾镇市良路西村段 912 号 P.C.:511483

Add:912 Xicun section Shilina Road Shawan Panyu Guangzhou,China.511483

Tel:86-20-39196888 Fax:86-20-61981166

MATERIAL SAFETY DATA SHEET

Date：Jan 1st, 2026

File No.:GP-QA-086

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Product name：	Rechargeable Li-ion Battery
Chemical System:	Li(NiCoMn)O2/C
Model:	ICR10440 320mAh 3.7V 1.184Wh ICR10440 350mAh 3.7V 1.295Wh
Designated for RECHARGE	X Yes __ No

Manufacturer/supplier identification

Company：	Guangzhou Great Power Energy & Technology Co., Ltd.
Contact for information：	912 Xicun Section, Shiliang Road, Shawan, Panyu, Guangzhou, GD, PRC
Emergency telephone No.：	0086-20-39196888

2. Composition/information on ingredients

Ingredient	Percent	CAS Index No./EC No.	Molar mass	Molecular formula	Symbol
Ternary Materials	28.4%	182442-95-1		Li(NiCoMn)O2	
Graphite	17.1%	7782-42-5		C	
Lithium hexafluorophosphate	1.3%	21324-40-3		LiPF6	
Ethylene carbonate	3.4%	96-49-1		C3H4O3	
Diethyl carbonate	4.7%	105-58-8		C5H10O3	
Dimethyl carbonate	3.8%	616-38-6		C3H6O3	
Polypropylene	2%	9003-07-0		(C3H6)n	
Steel	31.1%	7439-89-6		Fe	
Copper	5.7%	7440-50-8		Cu	
Aluminum	2.5%	7429-90-5		Al	

Weight of metallic lithium per cell: 0g. There is no metallic lithium in the lithium-ion battery.
The lithium polymer battery is with a Watt-hour rating ≤ 20 Wh/Cell (cell), ≤ 100 Wh (battery pack).

3. Hazards identification

Health Hazards (Acute and Chronic):
For the battery cell, chemical materials are stored in a hermetically sealed can, designed to withstand temperatures

and pressures encountered during normal use. As a result, during normal use, there is no physical danger of ignition or explosion and chemical danger of hazardous materials leakage.

However, if exposed to a fire, added mechanical shocks, decomposed, or added electric stress by misuse the cell case will be breached and hazardous materials may be released. Moreover, if heated strongly by the surrounding fire, acrid gas may be emitted.

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Carcinogenicity:
NTP: None IARC Monograph: None OSHA Regulated: None

Medical Conditions Generally Aggravated by Exposure:
An acute exposure will not generally aggravate any medical condition.
Human health effects:
Inhalation: The steam of the electrolyte has an anesthesia action and stimulates a respiratory tract.
Skin contact: The steam of the electrolyte stimulates a skin. The electrolyte skin contact causes a sore and the stimulation on the skin.
Eye contact: The steam of the electrolyte stimulates eyes. The electrolyte eye contact causes a sore and the stimulation on the eye. Inflammation of the eyes may occur.

Environmental effects:
Since a battery cell remains in the environment, do not throw out it into the environment.

Specific hazards:
If the electrolyte contacts with water, it may generate detrimental hydrogen fluoride.
Since the leaked electrolyte is inflammable liquid, do not bring close to fire.

4. First aid measures

After inhalation contact:	Make the victim blow his/her nose, gargle. Seek medical attention if necessary.
After skin contact:	Remove contaminated clothes and shoes immediately. Immediately wash extraneous matter or contact region with soap and plenty of water.
After eye contact:	Do not rub eyes. Immediately flush eyes with water continuously for at least 15 minutes. Seek medical attention.
After ingestion contact:	Make the victim vomit. Immediately seek medical attention.

5. Fire-fighting measures

Extinguishing Media:	Plenty of water, CO_2 gas, nitrogen gas, chemical powder fire extinguishing medium and fire foam.
Specific methods of fire-fighting:	When the battery burns with other combustibles simultaneously, take fire extinguishing method which corresponds to the combustibles. Extinguish a fire from the windward as much as possible.
Flammable Limits:	Not available

6. Accidental release measures

The preferred response is to leave the area and allow the batteries to cool and the vapors to dissipate. Avoid skin

and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

7. Handling and storage

Avoid mechanical or electrical abuse. Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

8. Exposure controls/personal protection

Specific control parameter：
Personal protective equipment ：

Respiratory protection (Specify Type)：	Not necessary under conditions of normal use.
Ventilation:	Not necessary under conditions of normal use.
Protective Gloves:	Not necessary under conditions of normal use.
Eye protection:	Not necessary under conditions of normal use.
Other Protective (Clothing or Equipment):	Not necessary under conditions of normal use.

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9. Physical and chemical properties

Appearance

Physical state:Solid	Form:Cylindrical
Color:Metallic color	Odor:No odor
PH:N/A	Specific temperatures:Temperature ranges changes in physical state occur.
Flash point:N/A	Explosion properties:N/A
Density:N/A	Solubility:with indication of the solvent(s): Insoluble in water

10. Stability and reactivity

Stability:	Stable
Conditions to Avoid:	When cell is exposed to an external short-circuit, crushes, deformation, high temperature above 100 degree C, it will cause heat generation and ignition. Avoid direct sunlight and high humidity.
Hazardous Decomposition or By-products:	Acrid or harmful gas is emitted during fire.
Materials to avoid:	Conductive materials, water, seawater, strong oxidizers and strong acids.

Hazardous polymerization will not occur.

11. Toxicological information

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Acute toxicity：	
Copper	60-100mg sized coarse particulate causes a gastrointestinal disturbance with nausea and inflammation. TDLo. hypodermic - Rabbit 375mg/kg
Organic electrolyte	LD50, oral - Rat 2,000mg/kg or more
Further toxicological information：	
Aluminum	By the long-term inhalation of coarse particulate or fume, it is possible to cause lung damage (aluminum lungs).
Graphite	Long-term inhalation of high levels of graphite coarse particulate may cause lung disease or a tracheal disease.

12. Ecological information

Ecotoxic effects： No information is available.
Biodegradable ：No information is available.
Mobility in soil : No information is available.
Bioconcentration or biological accumulation:No information is available.
Other harmful effects:Don’ t abandon the battery into environment, may cause water or soil pollution.

13. Disposal considerations

Great Power encourages battery recycling. Our Li-ion batteries are recyclable through the Rechargeable Battery Recycling Corporation's (RBRC) ***Charge Up to Recycle! Program***. For information call 1-800-8-BATTERY or see their website at www.rbrc.org. Li-ion batteries must be handled in accordance with all applicable state and federal laws and regulations.

DO NOT INCINERATE or subject battery cells to temperatures in excess of 212° F. Such treatment can vaporize the liquid electrolyte causing cell rupture. Do not use in combination with fresh and used lithium batteries neither with other type of battery.

14. Transport information

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The battery shall be passed the test items of the UNITED NATIONS "Recommendations on the Transport of Dangerous Goods,Manual of Tests and Criteria" section 38.3 and meet the requirements of UNITED NATIONS"Recommendations on the Transport of Dangerous Goods. model Regulations ".

General packaging requirement

1.The cells or batteries must be protected so as to prevent short circuits.
2.The cells or batteries or equipment must be packed in suitable strong outer packaging.
3.If batteries contained in equipment, equipment must be secured against movement within the outer packaging and be packed so as to prevent accidental activation.

The battery can be shipped by air in according to PACKING INSTRUCTION 965 Section lB, or PACKING INSTRUCTION 966~967 Section ll of the 2026 IATA Dangerous Goods regulations 67th Edition.

Air transportation, according to IATA-DGR 67th Edition (Effective 1 January-31December 2026)

UN Number	UN 3480/UN3481
Proper Shipping Name	LITHIUM ION BATTERIES
Hazard Class	Class 9
Packaging requirement	PACKING INSTRUCTION 965 of section IB/PACKING INSTRUCTION 966~967 of section II

Sea transportation, according to IMO IMDG Code （Amdt. 42-24）

UN Number	UN 3480/UN3481
Proper Shipping Name	LITHIUM ION BATTERIES
Hazard Class	Not restricted
Special provision	sp188
Package instruction	Not-restricted goods
EmS No.	F-A, S-I

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15. Regulatory information

Dangerous Goods Regulation (DGR)
Recommendations on the Transport of Dangerous Goods Model Regulations International Maritime Dangerous Goods (IMDG)
Occupational Safety and Health Act (OSHA)
Toxic Substances Control Act (TSCA)
Code of Federal Regulations (CFR)
Technical Instructions for the Safe Transport of Dangerous Goods
California Proposition 65
Superfund Amendments and Reauthorization Act Title III (302/311/312/313) (SARA) In accordance with all Federal, State and local laws.

16. Other information

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Make people：	Professional post：R&D Engineer	Name(sign)：Tingting Liao
Make unit：	Name：R&D Department	Phone：0086-20-39196888
	Address：R&D Dept., Panyu Plant.,	

Date of issue：2026/01/01

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