珠海鹏辉能源有限公司

Report No.: ZHPH-GP-007

Safety Data Sheets (SDSs)

SECTION 1: PRODUCTANDCOMPANY IDENTIFICATION

Product Identifier

Product name: Rechargeable Li-ion Polymer Battery Model/Type: 6530100 1000mAh 7.4V 7.4Wh

Other means of identification

Synonyms: none

Relevant identifieduse of Product and uses advised against

Recommended Use: electronic product

Uses advised against:Don't disassemble, impact, crush, put into fire or water, don' t use above 60 $^{\circ}C!$

Details of the Supplier of the safety data sheet:

Name: ZHUHAI GREAT POWER ENERGY CO., LTD.

Address: (BUILDING A, WORKSHOP)NO.2 XINQING FIFTH ROAD, JING'AN

TOWN, DOUMEN DISTRICT, ZHUHAI CITY, GUANGDONG PROVINCE, P.R.C.

Telephone: 0756-6333555 Fax:-

Postcode: 519100

E-mail address: renzheng@greatpower.net

Emergency telephone number

Company Emergency Phone Number: 0756-6333555

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview:

May explode in a fire, which could release irritant gas.

Skin contact:

No known significant effects or critical hazards under normal use.Contact with damaged batteries may cause burns.

Eye contact:

No known significant effects or critical hazards under normal use.Contact with damaged batteries may cause burns.

Inhalation:

Inhalation of vapors or fumes released due to heat or a large number of leaking batteries maycause respiratory and eye irritation.

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Ingestion:

Ingestion of product contents may cause mouth, throat and intestinal burns and damage.

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	Concentration	CAS No.	
Chemical Name	Formula	(%)	CAS NO.	咖啡能酒方应
Lithium Cobalt Oxide	LiCoO ₂	48	12190-7 <mark>9-</mark> 3	ALL AND AN HAR ST
Graphite	С	21.2	7782-42-5	枝 术 部 /
Ethylene carbonate	$C_3H_4O_3$	4.71	96-49-1	DX IV HW
Ethyl methyl carbonate	C ₃ H ₈ O ₃	0.785	623-53-0	
Diethyl carbonate	$C_5H_{10}O_3$	6.28	105-58-8	
Propylene carbonate	$C_4H_6O_3$	2.355	108-32-7	
Lithium hexafluorophosph ate(1-)	LiPF ₆	1.57	21324-40-3	
Polypropylene	C3H ₆	0.8	9003-07-0	
Copper	Cu	8.7	7440-50-8	
Aluminum	Al	5.6	7429-90-5	

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.

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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

CO₂, 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:

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°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 PrecautionsRefer 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

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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

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 p	noperties

	Form: prismatic	
PhysicalState	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.

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Auto-ignition temperature	Product is not self-igniting.
Decomposition temperature	Not determined.
Other Information	No further relevant information available.

SECTION 10: STABILITY AND REACTIVITY

<u>Reactivity</u>: 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.

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

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quantities materials.

Other disposal recommendations

Recommendation: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

Transport Attentions:

The goods shall be complied with the requirements of 63rd DGR Manual the Packing Instruction965-967, including the passing of the UN38.3 test, And also complies with the Special Provision 188 of IMDG CODE (Amdt.40-20).

The batteries should be securely packed and protected against short-circuits. And they should be packed in strong package during transport.Lithium cell or battery should incorporate a safety venting device or be designed to prevent a violent rupture under normal transport conditions.Keep away from high temperature and open flames.

Transport Fashion:By air,by sea,by railway,by road.

IATA:

UN Number+Proper Shipping Name: UN 3480 LITHIUM ION BATTERIES

Hazard Class: Class 9

Packaging requirement: According to IATA DGR 63rd Edition (Effective 1 January-31December 2022), PACKING INSTRUCTION 965 of section IB for transportation, the batteries must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity.

UN Number + Proper Shipping Name: UN 3481 LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

Hazard Class: Not restricted

Packaging requirement According to IATA DGR 63rd Edition (Effective 1 January-31December 2022), PACKING INSTRUCTION 967 of section II for transportation.

IMDG Code /IMO:

UN Number + Proper Shipping Name: UN 3480 LITHIUM ION BATTERIES, or UN 3481 LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

Hazard Class: Not restricted

Special Provision: sp188

Package Instruction: Not-restricted goods

Packaging Group: Common strong packing case

Ems No. F-A, S-I

RID: Not regulated

ADR: Not regulated

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AND: Not regulated

SECTION 15: REGULATORY INFORMATION

International Regulation:

Globally Harmonized System of Classification and Labeling 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, Labeling and Packaging of 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

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 bot assume any responsibility for the results of its use. This information is furnished upon condition that person receiving it shall made his own determination of the suitability of the material for his particular purpose.

DISCLAIMER:

The information and recommendations set forth are made in good faith and believed to be accurate as of the date of preparation.Zhuhai Great Power Energy Co.Ltd. makes no warranty expressed or implied, with respect to this information and disclaims all liabilities from reliance on it.

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