

SAFETY DATA SHEET

安全技术说明书

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

第一部分 化学品及企业标识



Product Name: Rechargeable Li-ion Battery
中文名称: 可充电锂离子电池
Model: GSP063040 1400mAh 3.7V 5.18Wh
产品型号:
Company: ZHUHAI GREAT POWER ENERGY CO.,LTD.
企业名称: 珠海鹏辉能源有限公司
Address: XINQING TECHNOLOGY PARK, ZHUFENG AVENUE,
JING AN TOWN, DOUMEN DISTRICT, ZHUHAI CITY,
GUANGDONG PROVINCE
地址: 广东省珠海市斗门区井岸镇珠峰大道新青科技园
Post Code: 519100
邮编:
Emergency Phone: 0086-0756-6333555
企业应急电话:
E-mail: renzheng@great power.net
SDS Date: 2020年1月1日
生效日期:

SECTION 2 HAZARDS IDENTIFICATION

第二部分 危险性概述

Hazards Identification:

危险性类别:

The battery has passed the test items of UN Model Regulations, Manual of Test and criteria Section UN 38.3.

通过联合国《关于危险货物运输的建议

Emergency Overview:

侵入途径:

健康危害:

书 试验和标准手册》UN38.3 试验。

Caution: Avoid contact and inhalation the electrolyte contained inside the battery.

眼睛和皮肤接触、吸入电池内的物质。

无详细的毒理学研究。避免直接接触电池内的物质，防止吸入。

SECTION 3 INFORMATION ON INGREDIENTS

第三部分 成分/组成信息



Ingredient	Concentration	CAS NO.
Lithium cobaltate	31.6%	12190-79-3
Graphite	17.1%	7782-42-5
Organic Electrolyte	13.2%	N/A
Polypropylene	2.8%	N/A
Copper	6.5%	7440-50-8
Aluminum	28.8%	7429-90-5

SECTION 4 FIRST-AID MEASURES

第四部分 急救措施

Skin Exposure: If the internal battery materials of an opened battery cell come into contact with the skin, immediately flush with plenty of water.

皮肤接触: 若接触到电池内的物质，立即用肥皂和大量清水彻底清洗皮肤。

Eye Exposure: In case of the internal battery materials in contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

眼睛接触: 若接触到电池内的物质，立即提起眼睑，用流动清水冲洗 15 分钟以上。

Inhalation Exposure: If inhaled the internal materials of battery, remove immediately

to fresh air and seek medical attention.

吸入：若吸入电池内的物质，立即脱离现场至空气新鲜处。

Oral Exposure: If swallowed the internal materials of battery, do not induce vomiting.
Seek immediate Medical attention.

食入：若食入电池内的物质，不宜催吐，立即就医。

SECTION 5 FIRE FIGHTING MEASURES

第五部分 消防措施



Extinguishing Media:

Suitable: Dry chemical, Sandy soil, Carbon dioxide or appropriate foam.

灭火方法及灭火剂：可用干粉、砂土、泡沫和二氧化碳灭火。

Firefighting:

Protective Equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific hazards: Emit toxic fumes under fire conditions.

灭火注意事项及措施：消防员应戴自给正压式呼吸器，穿消防防护服以防止皮肤和眼睛的接触。

SECTION 6 ACCIDENTAL RELEASE MEASURES

第六部分 泄露应急处理

Procedure of Personal Precaution:

If batteries show signs of leaking, avoid skin or eye contact with the material leaking from the battery. Use chemical resistant rubber gloves and non-flammable absorbent materials for clean up. Mix with inert material(e.g. Dry sand, vermiculite) and transfer to sealed container for disposal.

应急处理：若电池内的物质泄露，用洁净铲子收集于干燥、洁净、有盖的容器中待处置。处理人员应穿合适的防护服。

SECTION 7 HANDLING AND STORAGE

第七部分 操作处置与储存

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.

操作处置注意事项: 操作人员应经过培训, 严格遵守操作规程。建议操作人员穿一般作业防护服, 带安全手套。远离火种、热源, 避免阳光直射。工作场所严禁吸烟。工作场所应有通风系统和设备。避免随意拆卸电池和弄错正负极。须牢记在内包装中, 以有效防止短路和防止可导致短路的移动。万一电池内的物质泄露, 避免眼睛、皮肤直接接触, 避免吸入。应与强氧化剂、腐蚀品分开存放。

Storage: 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 to short circuits. Materials to Avoid: Strong oxidizing agents, Corrosives.

储存注意事项: 储存于阴凉、通风的库房内。远离火种、热源, 避免阳光直射。应与强氧化剂、腐蚀品分开存放。储存区配备相应品种和数量的消防器材、泄露应急处理设备和合适的收容材料。

SECTION 8 EXPOSURE CONTROL/PPE

第八部分 接触控制/个体防护

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.

最高容许浓度:	未制定标准
检测方法:	无
工程控制:	有通风系统和设备。提供安全淋浴和洗眼设备。
呼吸系统防护:	正常使用情况下不需要。
眼睛防护:	正常适应情况下不需要。
身体防护:	穿一般作业防护服。
手防护:	带安全手套。
其它防护:	工作现场严禁吸烟、进食。工作后, 淋浴更衣。

SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

第九部分 理化特征

Appearance:	Prismatic battery
外观与性状:	方型电池
Odor:	Odorless
气味:	无臭
Melting Point/°C:	>300°C
熔点:	>300°C
Solubility:	Partial soluble in water
溶解性:	部分溶于水

SECTION 10 STABILITY AND REACTIVITY

第十部分 稳定性与反应活性

Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Avoid exposure to heat and open flame. Avoid mechanical or electrical abuse. Prevent short circuits. Prevent movement which could lead to short circuits.

Materials to Avoid:

Strong oxidizing agents, Corrosives.

Hazardous Polymerization:



Will not occur.

Hazardous Decomposition Products:

Metal oxides, CO, CO₂.

稳定性:	常温常压下稳定
避免接触的物质:	强氧化剂、腐蚀品。
避免接触的条件:	误操作, 高温, 防止短路和防止可导致短路的移动。
聚合危害:	不聚合。
有害分解产物:	金属氧化物、CO/CO ₂ 等。

SECTION 11 TOXICOLOGICAL INFORMATION

第十一部分 毒理学资料

Toxicity Data:

Not available.

Irritation Data:

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

急性毒性:	无资料
刺激性:	其中的电解质对眼睛、皮肤有刺激性。



SECTION 12 ECOLOGICAL INFORMATION

第十二部分 生态学资料

No data available.

生态毒性:	无资料
生物降解性:	无资料
非生物降解性:	无资料

SECTION 13 DISPOSAL CONSIDERATION

第十三部分 废气处理

Appropriate Method of Disposal of Substance:

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.

废弃处置方法: 废弃电池的处置应符合《中华人民共和国固体废物污染环境防治法》，《废电池污染防治技术政策》等有关法律、法规、政策和标准的要求。

SECTION 14 TRANSPORT INFORMATION

第十四部分 运输信息

运输标签: 锂电池标记, 第 9 类锂电池危险品标签, 仅限货机标签

Label for conveyance: Lithium Battery Mark, class 9 lithium battery hazard label, Cargo Aircraft Only Label.

UN 编号: UN3480

UN Number: UN3480

包装级别: 不适用

Packaging Group: N/A

Ems 编号: F-A, S-I

Ems No: F-A, S-I

海洋污染物: 无

Marine pollutant: No

正确的装运名称: 锂离子电子电池 (包括锂离子聚合物电池)

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

危险分类: 货物符合 IATA 第 61 版《危险品规则》包装说明 965 第 IB 节规定 (2019 年版), 《国际海运危险货物规则》特殊规 188 海运危险货物规则 (Amdt. 39-18) 2016 版, 包括通过 UN38.3 测试手册要求。

Hazard Classification: The goods are complied with the requirements of Section IB of Packing instruction 965 of 61st DGR Manual of IATA (2019 Edition), special provision 188 of IMDG CODE (Amdt. 39-18) 2016 Edition, including the passing of the UN38.3 test.

OR:

或者:



运输标签: 锂电池操作标记

Label for conveyance: Lithium Battery Mark

UN Number: UN3481

包装级别: 不适用

Packaging Group:N/A

Ems 编号: F-A, S-I

Ems No: F-A, S-I

海洋污染物: 无

Marine pollutant:No

正确的装运名称: 安装在设备中的锂电子电池 (包括锂离子聚合物电池)

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

危险分类: 货物符合 IATA 第 61 版《危险品规则》包装说明 967 第 II 节规定(2019 年版),《国际海运危险货物规则》特殊规 188 海运危险货物规则 (Amdt. 39-18) 2016 版, 包括通过 UN38.3 测试手册要求。

Hazard Classification: The goods are complied with the requiremants of Section II of Packing instruction 967 of 61st DGR Manual of IATA(2019 Edition),special provision 188 of IMDG CODE (Amdt. 39-18) 2016 Edition,including the passing of the UN38.3 test.



SECTION 15 REGULATORY INFORMATION

第十五部分 法规信息

ICAO:

1. Unless be exempted according to ICAO TI, the lithium ion cell/batteries (UN3840, PI 965) and lithium metal Cell/batteries (UN3090, PI 968) are forbidden for carriage on passenger aircraft.
2. Unless be approved according to ICAO TI, Lithium ion cells/batteries (UN3480, PI 965) must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity.
- 3.A shipper is not permitted to offer for transport more than one (1) package prepared according to section II of PI 965 and PI 968 may be placed into an overpack.
- 4.Packages prepared according to Section II of PI 965 and PI 968 must be offered to the operator separately from other cargo and must not be loaded into a unit load device (ULD) before being offered to the operator.

国内法规:

本品运输时在 GB12268-2012《危险货物品名表》中的编号为：3480/ 3481。
该型号锂电池通过联合国《关于危险货物运输的建议书 试验和标准手册》UN38.3 试验，根据《危险货物品名表》中的特殊规定，不作为危险货物运输。
本品在《铁路危险货物品名表》(2009 版)中的铁危编号为：91013/ 91014。

ICAO:

- 1.除非依据《技术细则》的相关要求取得豁免，单独包装的锂离子电池（芯）（UN3480，PI 965）和锂金属电池（芯）（UN 3090，PI 968）货物禁止使用客机运输。
- 2.除非依据《技术细则》的相关要求取得特别批准，按照包装说明 965 要求运输的锂离子电池（芯）货物，交运时锂离子电池（芯）的荷电状态不得超过其额定容量的 30%。
- 3.在任何一票货物中，按照包装说明 968 第 II 节或 968 第 II 节要求运输的锂电池货物包装件不得超过一个。每个集合包装中所装的按照包装说明 965 第 II 节或 968 第 II 节要求运输的锂电池货物包装件不得超过一个。
- 4.按照包装说明 965 或 968 第 II 节要求运输的锂电池货物包装件或集合包装必须与其他货物分开交运，且在交运前不得装入集装箱。

SECTION 16 OTHER INFORMATION

第十六部分 其他信息



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 person receiving it shall made his own determination of the suitability of the material for his particular purpose.

上述信息是基于现有的数据信息，在实际应用过程中可能出现其他未预料的情况，其相应信息可能需要修改，我方不承担引项责任。在操作中请根据实际情况做出相应的正确的处置。

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