



# 江苏紫米电子科技有限公司

Report NO.:MSDS-PLM07ZM-ZMI

Date:2021.01.01

## 安全技术说明书

## MATERIAL SAFETY DATA SHEET

### 1. 产品和制造商

Product and manufacturer

名称: 移动电源 Name: Power Bank
型号: PLM07ZM Product number: PLM07ZM
制造商: 江苏紫米电子科技有限公司 Manufacturer name: ZIMI CORPORATION
电池能量: 3.7V 20000mAh 74Wh Capacity: 3.7V 20000mAh 74Wh
电话: +86 4009938696 Tel: +86 4009938696

### 2. 组成成份

Composition ingredients/identity

MATERIAL OR INGREDIENT	PEL (OSHA)	TLV (ACGIH)	%wt.
Graphite (CAS# 7782-42-5)	5 mg/m <sup>3</sup> TWA	3 mg/m <sup>3</sup> TWA	7-25
Lithium cobalt (CAS# 2190-79-3)	0.1 mg/m <sup>3</sup>	0.02 mg/m <sup>3</sup>	15-40
Lithium Hexafluorophosphate (CAS# 21321-40-3)	None established	None established	0-5
Acetylene Black (CAS# 1523-86-1)	5.5 mg/m <sup>3</sup> TWA (as carbon black)	3.5 mg/m <sup>3</sup> TWA (as carbon black)	0-2
Diethyl Carbonate (CAS# 105-58-8)	None established	None established	0-15
Dimethyl Carbonate (CAS# 616-38-6)	None established	None established	0-15



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Diethyl Methyl Carbonate (CAS# 621-94-1)	None established	None established	0-15
Propylene Carbonate (CAS# 108-32-7)	None established	None established	0-15
Ethylene Carbonate (CAS# 96-49-1)	None established	None established	0-15

### 3. 危险性概述

#### Hazard identification

**危险性描述:** 正常使用没有危险, 不能拆解、打开或分解电池, 里面的材料或成分是有毒的。

**Hazard Description:** Not dangerous with normal use. Do not dismantle, open or shred the battery ingredients contained within or their ingredients products could be harmful.

**接触途径:** 吸入、食入、皮肤接触、眼睛接触。

**Primary Route(s) of Exposure:** Inhalation, Ingestion, Skin contact and Eye contact.

**潜在健康影响:**

**Potential Effects Health:**

**吸 入:** 破裂的电池散发出来的气雾会引起呼吸道刺激。

**Inhalation:** Vapors or mists from a ruptured battery may cause respiratory irritation.

**食 入:** 电池的组成成分或原料可以导致嘴、食道和胃肠道的严重化学烧伤。

**Ingestion:** The battery ingredients contained within or their ingredients products can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.

**皮 肤:** 皮肤接触到电池的内部化学材料可能会导致严重的刺激或烧伤皮肤。

**Skin:** Skin contact with contents of an open battery can cause severe irritation or burns to the skin.

**眼 睛:** 眼睛接触到电池的内部化学材料可能会导致严重的刺激或烧伤眼睛。Eye contact: Eye contact with contents of an open battery can cause severe irritation or burns to the eye.

### 4. 急救措施

#### First Aid Measures

**吸 入:** 移除污染源或者将受害者移至新鲜空气处, 寻求医生建议。

**Inhalation:** Remove source of contamination or move victim to fresh air. Obtain medical advice.



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**食 入:** 立即用清水漱口, 在专业人士的指导下催吐, 速就医。  
**Ingestion:** Please rinse mouth thoroughly with water, induce vomiting under the guidance of professional personage. Please seek medical treatment in time.

**反肤接触:** 脱下已污染衣服, 用大量的水冲洗至少15分钟, 速就医。  
**Skin contact:** Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.

**眼睛接触:** 用流动水冲洗15分钟, 如刺激持续发生, 请求助于医生。  
**Eye contact:** Irrigate with flowing water for 15 minutes. If irritation persists, consult a physician.

## 5. 消防措施

### Fire Fighting Measures

**灭火介质:** 大量的水、干粉或二氧化碳  
**Extinguishing Media :** Plenty of water, Dry chemical powder or Carbon dioxide

**危险特性:** 火灾时可释放有害浓烟、气体或者蒸汽  
**Characteristics of Hazard:**Toxic fumes, gases or vapors may evolve on burning.

**燃烧产生的危险物品:** 一氧化碳, 二氧化碳, 锂氧化物烟气等  
**Hazardous Combustion Products:** Carbon monoxide,carbon dioxide,lithium oxide fumes and so on.

**灭火注意事项:** 消防人员须佩戴防毒面具、穿全身消防服  
**Attention in Fire-extinguishing:** The firemen should put on antigas masks and full fire-fighting suits.

## 6. 泄露应急处理

### Accidental Release Measures

**个人防护措施、防护装备和应急程序:** 限制区域, 直到完成清理工作。请勿触摸洒漏的材料。穿戴适当的个人防护设备, 如第8部分所示。  
**Personal Precautions, protective equipment, and emergency procedures:** Restrict access to area until completion of clean-up.Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8.

**环境保护措施:** 防止物质污染土壤和进入下水道或水道。  
**Environmental Precautions:**Prevent material from contaminating soil and from entering sewerS or waterways.



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方法和材料控制：出于安全，阻止泄露。可以用干沙或沙土来遏制液体泄露，立即清理泄露。

Methods and materials for Containment: Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.

清理的方法和材料：用惰性吸收剂（干砂或沙土）吸收溢出的材料。污染物转移到可吸收废物的容器。收集所有受污染的吸收剂和根据第 13 部分的指令处置。用洗涤剂和水清洗污染区域。收集所有受污染的洗涤水进行适当处置。

Methods and materials for cleaning up: Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper disposal.

## 7. 操作处置与储存

### Handling and Storage

#### 操作:

##### Handling:

请勿将电池浸入水中或弄湿。

Do not dip or wet the battery in water.

请勿将电池放入火中或加热。

Do not put the battery into a fire or heat it.

不要直接焊接电池。

Do not solder the battery directly.

不要在靠近火源或加热器的地方使用或存放电池。

Do not use or leave the battery in a place near fire or heaters.

不要将电池拆解。

Do not disassemble.

不要用暴力撞击电池。

Do not apply heavy impact to the battery.

请勿将充电器或设备的正(+)极和负(-)极反向连接电池。

Do not connect the battery reversed in positive (+) and negative (-) terminals in the charger or equipment.

请勿使用非制造商指定的充电器。也请遵守制造商指定的充电条件。

Do not use any battery charger not specified by manufacturer, also, follow the charge conditions specified by manufacturer.

不要将电池直接连接到汽车上的电源口或点烟口

Do not connect the battery directly to an electric outlet or cigarette heater socket in a car.



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储存:

Storage:

储存在在阴凉干燥处(最好低于30°C/86°F), 但要防止电池或电芯的冷凝。  
每6个月按制造商规定的容量给电池充电, 即便电池没有使用。

Store in cool place (preferably below 30°C/86°F) but prevent condensation on cells or batteries.

Charge the battery every 6 months to the amount specified by the manufacturer, even if the battery is not used.

## 8. 接触控制/个体防护

Exposure Controls/ Personal Protection

工程控制: 远离热源和明火, 存储于阴凉干燥处。

Engineering controls: Keep away from heat and open flame. Store in a cool dry place.

个人防护:

Personal Protective:

呼吸保护: 在正常情况下不需要。

Respiratory Protection: Not necessary under normal conditions.

皮肤和身体防护: 在正常情况下不需要。

Skin and body Protection: Not necessary under normal conditions.

手防护: 如果处理泄漏电池, 穿氯丁橡胶或天然橡胶材质手套。

Hand protection: Wear neoprene or natural rubber material gloves if handling an open or leaking battery.

眼睛保护: 在正常情况下不需要, 如果处理打开或泄漏的电池, 戴上安全眼镜。

Eye Protection: Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.

## 9. 理化特性

Physical and Chemical Properties

物理状态: 固体	外观: N/A
Physical state: Solid	Appearance: N/A
颜色: 白色	气味: N/A
Color: White	Odour: N/A
PH 值: N/A	沸点: N/A
PH: N/A	Boiling point: N/A



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熔点: N/A Melting point: N/A	闪点: N/A Flash point: N/A °F N/A °C
自燃性: N/A Autoignition: N/A	爆炸极限: N/A Explosion limit: N/A
蒸汽压力: N/A Vapor pressure: N/A	蒸汽密度: N/A Vapor density: N/A
密度: N/A Density: N/A	水溶性: N/A Water solubility: N/A

## 10. 稳定性和反应活性 Stability and reactivity

稳定性: 正常使用时稳定性良好。 Stability: The product is stable under normal conditions.
避免接触条件: 避免接触高温和明火, 不要刺穿, 压碎或焚烧 Conditions to avoid: Avoid exposure to heat and open flame. Do not puncture, crush or incinerate
不相容材料: 不适用 Incompatible materials: Not Available
危险品分解: 如果被烧毁或暴露在火中, 这种物质可能会释放有毒的烟雾 Hazardous decomposition products: This material may release toxic fumes if burned or exposed to fire
危险反应的可能性: 不适用 Possibility of Hazardous Reaction: Not Available

## 11. 毒理学资料 Toxicological Information

急性中毒: 不适用 Acute toxicity: Not Available
致畸性: 不适用 Teratogenicity: Not Available
敏化作用: 不适用 Sensitization: Not Available
再生毒性: 不适用 Reproductive toxicity: Not Available



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特殊毒性: 不适用

Special toxicity: Not Available

## 12. 生态学信息

Ecological information

通用信息: 不允许未稀释或大量的产品到达地下水、水道或污水系统。

General note: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

在环境/可能的环境影响/毒性化学产品的预期行为: 不适用

Anticipated behavior of a chemical product in environment/possible environmental

impact/ecotoxicity: Not Available

在土壤中的移动性: 不适用

Mobility in soil: Not Available

持久性和降解性: 不适用

Persistence and Degradability: Not Available

## 13. 废弃处理

Disposal information

废弃处置方法: 建议遵照国家和地方法规处置或再利用。

Waste Treatment: Recycle or dispose of in accordance with government, state & local regulations.

废弃注意事项: 废电池不能被当做普通垃圾。不能扔进火中或置于高温下。不能解体、刺穿、破碎或类似的处理。最好的办法是回收利用。

Attention for Waste Treatment: Deserted batteries couldn't be treated as ordinary trash. Couldn't be thrown into fire or placed in high temperature. Couldn't be dissected, pierced, crushed or treated similarly. Best way is recycling.

## 14. 运输信息

Transportation information



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根据国际航空运输协会(IATA)和国际海事组织(IMO)的规定,货物应遵守 IATA 第 62 版 DGR 手册包装说明 965 第 IB 部分规定 (2021 年版) 和特殊规定 188 海运危险货物规则 (Amtd. 39-18) 版, 包括通过 UN38.3 测试手册要求。

Based on the regulation for the International Air Transport Association and International Maritime Organization (IMO), the goods shall be complied with the requirements of Packing Instructions 965 Section IB of 62th DGR Manual of IATA(2021 Edition) or special provision 188 of IMDG CODE (Amtd. 39-18) Edition, including the passing of the UN38.3 test.

UN 分类: 第 9 类, UN 编号: UN3480

The UN classification: class 9, the UN number: UN3480

该电池必须做好防短路保护, 包括防止与同一封装内的导电材料接触可能导致的短路。

The battery shall be protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit.

包装应足以避免在运输、处理和堆放期间的机械损坏

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking.

包装必须小心处理, 如果包装损坏, 存在易燃危险。

The package must be handled with care and that a flammability hazard exists if the package is damaged.

## 15. 法规信息

### Regulatory information

锂离子电池(芯)运输主要适用如下规定:

联合国《关于危险货物运输的建议书 试验和标准手册》。

国际民用航空组织(ICAO): 危险品航空安全运输技术规程。

国际航空运输协会(IATA): 《危险品规则》第 62 版。

国际海事组织(IMO): 《国际海运危险货物规则》(IMDG)。

Major applicable regulations for the transportation of lithium-ion cells and batteries are as follows.

The UN Model Regulations, United Nations UN/ ST/SG/AC. 10/12,

Recommendations on the Transport of Dangerous Goods,





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The International Civil Aviation Organization (ICAO): Technical Instructions for Safety Transport of Dangerous Goods by Air.

The International Air Transport Association (IATA): Dangerous Goods Regulations, 62th Edition.

International Maritime Organization (IMO): International Maritime Dangerous Goods (IMDG) Code.

## 16. 其它

### Others

在我们看来上面的信息是准确的，这是我们目前能提供的最佳的信息。但是，对于这些信息，我们不对商品的性能做任何明示的或者暗示的保证，我们也不对使用这些信息造成的后果担负任何责任。用户应当自己调查研究后决定这些信息是否适用于他们的特定用途。尽管在该文档里提出了合理的预警，但是这仅仅只是给您做参考，考虑和调查。这份化学品安全技术说明书提供了安全处理和使用该产品的指南，但是它没有，也不能对所有可能发生的情景提出建议，所以您需要根据您对该产品的特定使用情况来决定是否需要其他的预防措施。

The information above is believed to be accurate and represents the best information currently available to us. However, we makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.