

材料安全数据表

Material Safety Data Sheet

委托单位: 深圳市明群电子有限公司
Client: SHENZHEN M-QUEEN ELECTRONICS CO LTD
深圳市宝安区西乡固戍新安第二工业区 A2 栋南 5 楼
5/F, Block A2 South, Xin' an 2nd Industry Zone, Gushu,
Xixiang, Bao' an District, Shenzhen China

样品名称: 移动电源
Name of Sample: Power Bank

型号/规格: UPB20UF (20000mAh, 74Wh)
Model/Type:

编制单位: 深圳市赛为检测技术有限公司
Prepared By: Shenzhen Safe Win Testing Technology Co., Ltd.
深圳市宝安区福海街道和平社区永和路45号金丰智汇谷A栋厂房
106、401
Room 106, 401, Building A, Jinfeng Zhihuigu, No. 45 Yonghe
Road, Heping Community, Fuhai Street, Bao 'an District,
Shenzhen City, Guangdong Province, China

报告编号: SWT23001701B03D-M0
Report No.:

编制日期: 2023.01.17
Prepared Date:

编制员: **审核人:** **批准人:**
Appraiser By: **Checked By:** **Approved By:**

Jack Zhou

Yavis Ding


编制单位 (盖章):
Stamp :



材料安全数据表

Material Safety Data Sheet

1. 化学品及企业标识	
Chemical product and company identification	
样品名称 Name of Sample	移动电源 Power Bank
样品型号 Type/Mode	UPB20UF
委托单位 Commissioned by	深圳市明群电子有限公司 SHENZHEN M-QUEEN ELECTRONICS CO LTD
委托单位地址 Commissioner address	深圳市宝安区西乡固戍新安第二工业区 A2 栋南 5 楼 5/F, Block A2 South, Xin' an 2nd Industry Zone, Gushu, Xixiang, Bao' an District, Shenzhen China
生产单位 Manufacturer	深圳市明群电子有限公司 SHENZHEN M-QUEEN ELECTRONICS CO LTD
生产单位地址 Manufacturer address	深圳市宝安区西乡固戍新安第二工业区 A2 栋南 5 楼 5/F, Block A2 South, Xin' an 2nd Industry Zone, Gushu, Xixiang, Bao' an District, Shenzhen China
生产企业 Factory	深圳市明群电子有限公司 SHENZHEN M-QUEEN ELECTRONICS CO LTD
生产企业地址 Factory address	深圳市宝安区西乡固戍新安第二工业区 A2 栋南 5 楼 5/F, Block A2 South, Xin' an 2nd Industry Zone, Gushu, Xixiang, Bao' an District, Shenzhen China
鉴定依据 Inspection according to	EEC Directive 93/112/EC 联合国《关于危险品货物运输的建议书》 UN "Recommendations on the TRANSPORT OF DANGEROUS GOODS"
应急电话 Emergency telephone call	+86-755-29593716



2. 成分/组成信息
Composition information

材料及组分 Material or ingredient	CAS号 CAS No.	重量含量 Wt %
Lithium Cobalt Oxide	12190-79-3	15-40
Graphite	7782-42-5	10-30
Phosphate(1-), hexafluoro-,lithium	21324-40-3	10-30
Copper	7440-50-8	7-13
Aluminum Foil	7429-90-5	5-10
Nickel	7440-02-0	1-5

3. 危险性概述
Hazards identification

吸入危害 Aspiration hazard	吞咽及进入呼吸道可能有害 May be harmful if swallowed and enters airways
急毒性 Acute toxicity	吞咽有害 Harmful if swallowed 皮肤接触有害 Harmful in contact with skin 吸入有害 Harmful if inhaled
皮肤腐蚀/刺激 Skin corrosion/irritation	造成皮肤刺激 Causes skin irritation
毒害危险性 Toxic risk	该物品不属于毒害危险品 This article does not belong to the toxic dangerous goods
皮肤腐蚀/刺激 Skin corrosion/irritation	造成严重皮肤灼伤和眼损伤 Causes severe skin burns and eye damage
皮肤致敏物 Skin sensitization	可引起皮肤过敏反应 May cause an allergic skin reaction
其他危险性 other risk	该物品电池瓦时率为74Wh, 属于锂离子电池 (包括锂离子聚合物电池) This article is Rechargeable lithium ion battery, Watt hour rate 74Wh, which belong to the Lithium ion batteries (including lithium ion polymer batteries)

4. 急救措施

深圳市赛为检测技术有限公司
 Shenzhen Safe Win Testing Technology Co., Ltd.
 深圳市宝安区福海街道和平社区永和路45号金丰智汇谷A栋厂房106、401
 Room 106, 401, Building A, Jinfeng Zhihuigu, No. 45 Yonghe Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong Province, China
 Phone: 0755-23307380; E-mail: Services@swt-tech.com; Http:// www.swt-tech.com
 受控编号: SWT-TRF-B27



First aid measures

眼睛: 万一接触, 立即用大量的清水冲洗至少15分钟, 翻起上下眼睑, 直到化学的残留物消失为止, 迅速就医。

Eye: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

皮肤: 万一接触, 用大量水冲洗至少15分钟, 同时除去污染的衣物和鞋子, 迅速就医。

Skin: Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.

吸入: 立即从暴露处移至空气清新处, 如果呼吸困难给予输氧, 立即就医。

Inhalation: Remove from exposure and move to fresh air immediately. Use oxygen if available.

食入: 饮用两杯牛奶或水。如果当事人仍然清晰可以采取催吐的方法, 并且立即就医。

Ingestion: Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician

5. 消防措施
Fire-fighting measures

燃点: 不适用

Flash Point: N/A.

自燃温度: 不适用

Auto-Ignition Temperature: N/A.

灭火介质: 大量水 (降温), 二氧化碳

Extinguishing Media: Water, CO₂.

特殊灭火程序: 自给式呼吸器

Special Fire-Fighting Procedures

Self-contained breathing apparatus.

异常火灾或爆炸: 当电芯暴露于过热的环境中时, 安全阀可能会打开。

Unusual Fire and Explosion Hazards

Cell may vent when subjected to excessive heat-exposing battery contents.

燃烧产生的危险物品: 一氧化碳, 二氧化碳, 锂氧化物烟气

Hazardous Combustion Products

Carbon monoxide, carbon dioxide, lithium oxide fumes.

6. 泄露应急处理
Accidental release measures

为防止电池材料泄露或释放采取的措施

如果电池内部材料泄露, 试验人员应立刻撤离试验区直到烟气消散。将通风设备打开吹散危险性气体。用抹布擦净试验区, 清除溢出的液体, 将泄露电池放进塑料袋中, 然后放进钢制容器。避免皮肤和眼睛接触或吸入有害气体。

Steps to be taken in case Material is Released or Spilled

If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the battery to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

废弃物处置方法

用沙子或其他不易燃的吸收材料吸收溢出物, 然后放在干燥、清洁和有盖的容器中。避免产生灰尘, 保持空气流通。损坏的电池不应加热或灰化, 应放在密封的防火或阻燃容器中。

Waste Disposal Method

Absorb spill with sand or other noncombustible absorbent materials, then place in dry, clean and covered container. Avoid the generation of dust and maintain air circulation. The damaged battery should not be heated



or in cinerated, and Should be placed in sealed fire-resistant or nonflameable container.

7. 操作处置和储存 Handling and storage

禁止打开、毁坏或焚烧电池，因为电池有可能在这些处理过程中发生爆炸、破裂或泄露等事故。禁止将电池短路、过充、强制放电或扔入火中。禁止挤压刺穿电池或将电池浸入溶液中。

The battery should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container. Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire. Do not crush or puncture the battery, or immerse in liquids.

操作处置和储存中的防范措施

禁止物理或电滥用，禁止高温储存，最好将电池储存在阴凉、干燥、通风及温度变化较小的环境中。禁止将电池接触加热设备或将电池直接暴露与阳光中。

Precautions to be taken in handling and storing

Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.

其他要注意的防范措施

拆解、挤压、直接放入火中或高温条件下，电池可能发生爆炸和燃烧。禁止短接或将电池正负极错误的安装在设备中。

Other Precautions

The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

8. 接触控制/个人防护 Exposure controls/personal protection

呼吸防护:

当电池排气阀打开时，应尽量使通风设备开至最大，避免将打开排气阀的电芯局限在某一狭窄空间内。正常操作条件下，呼吸保护是不必要的。

Respiratory Protection

In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use.

通风条件

正常使用条件下不必考虑。

Ventilation

Not necessary under conditions of normal use.

防护手套

正常使用条件下不必考虑。

Protective Gloves

Not necessary under conditions of normal use.

其他防护服装或设备

正常使用条件下不必考虑。

Other Protective Clothing or Equipment

Not necessary under conditions of normal use.

电池开阀试验时应做好个人防护

呼吸防护，防护手套，防护服装和有护边的安全玻璃罩都是要准备的。

Personal Protection is recommended for venting battery

Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields.



9. 物理和化学特性 Physical and chemical properties

外形: 棱柱形

Appearance: Prismatic

认证编号: TCT220216B015

Ref, No.: TCT220216B015

气味: 泄漏时, 有醚的气味。

Odour: If leaking, smells of medical ether.

酸碱度: 不适用

pH: Not applicable as supplied.

闪点: 针对单个组分暴露情况, 其他不适用。

Flash Point: Not applicable unless individual components exposed.

易燃度: 针对单个组分暴露情况, 其他不适用。

Flammability: Not applicable unless individual components exposed.

相对密度: 针对单个组分暴露情况, 其他不适用。

Relative density: Not applicable unless individual components exposed.

溶解性 (水溶性): 针对单个组分暴露情况, 其他不适用。

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

溶解性 (其他): 针对单个组分暴露情况, 其他不适用。

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

10. 稳定性和反应活性 Stability and reactivity

稳定性: 产品在第7节所述的条件下稳定。

Stability: Product is stable under conditions described in Section 7.

应避免的条件: 加热70°C以上或焚烧、变形、毁坏、粉碎、拆卸、过充电、短路, 长时间暴露在潮湿的条件下。

Conditions to Avoid: Heat above 70°C or incinerate. Deform. Mutilate. Crush. Disassemble. Overcharge. Short circuit. Expose over a long period to humid conditions.

应避免的材料: 氧化剂, 碱, 水。

Materials to avoid: Oxidising agents, alkalis, water.

危险分解物: 有毒烟雾, 并可能形成过氧化物。

Hazardous Decomposition Products: Toxic Fumes, and may form peroxides.

聚合危害: 不适用

Hazardous Polymerization: N/A.

如果发生泄露, 避免与强氧化剂, 无机酸, 强碱, 卤代烃接触。

If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalies, halogenated hydrocarbon.

11. 毒理学资料 Toxicological information

标志及症状: 无, 除非电池破裂。

Signs & symptoms: None, unless battery ruptures.

内部物质暴露的情况下, 蒸汽烟雾可能对眼睛和皮肤的刺激性。

In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.

吸入: 对肺有刺激性。

Inhalation: Lung irritant.

皮肤接触: 对皮肤刺激性。

Skin contact: Skin irritant.

眼睛接触: 对眼睛有刺激性。

Eye contact: Eye irritant

食入: 吞下中毒。

Ingestion: Poisoning if swallowed.

深圳市赛为检测技术有限公司

Shenzhen Safe Win Testing Technology Co., Ltd.

深圳市宝安区福海街道和平社区永和路45号金丰智汇谷A栋厂房106、401

Room 106, 401, Building A, Jinfeng Zhihuigu, No. 45 Yonghe Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong Province, China

Phone: 0755-23307380; E-mail: Services@swt-tech.com; Http:// www.swt-tech.com

受控编号: SWT-TRF-B27



下列情况下会危险人员身体健康：如果与电池内部材料直接接触，皮肤可能会出现干燥、灼烧等轻微或严重的刺激，并且损坏靶器官的神经，肝脏和肾脏。

Medical conditions generally aggravated by exposure: In the event of exposure to internal contents, moderate to severe irritation, burning and dryness of the skin may occur, Target organs nerves, liver and kidneys.

12. 生态学资料 Ecological information

对哺乳动物的影响：目前未知。

Mammalian effects: None known at present.

生态毒性：目前未知。

Eco-toxicity: None known at present.

生物体内积累：慢慢地生物降解。

Bioaccumulation potential: Slowly Bio-degradable.

环境危害：目前没有已知的环境危害。

Environmental fate: None known environmental hazards at present.

13. 废弃处置 Disposal consideration

禁止焚烧，或使电池温度超过70°C，这种滥用可导致泄漏和/或电池爆炸。应按照相应的地方性法规处理。

Do not incinerate, or subject cells to temperature in excess of 70°C, Such abuse can result in loss of seal leakage, and/or cell explosion. Dispose of in accordance with appropriate local regulations.

14. 运输信息 Transport information

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

包装等级：N/A

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：锂离子电池(包括锂离子聚合物电池)

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

危害分类：货物符合IATA 第64版《危险品规则》包装说明965第IB节规定（2023年版），《国际海运危险货物规则》特殊规定188（Amdt. 40-20）（2020年版），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 Instructions 965 of 64th DGR Manual of IATA (2023 edition), special provision 188 of IMDG CODE (Amdt. 40-20) (2020 Edition), including the passing of the UN38.3 test.

15. 法规信息 Regulation information

法律信息

Law information

深圳市赛为检测技术有限公司

Shenzhen Safe Win Testing Technology Co., Ltd.

深圳市宝安区福海街道和平社区永和路45号金丰智汇谷A栋厂房106、401

Room 106, 401, Building A, Jinfeng Zhihuigu, No. 45 Yonghe Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong Province, China

Phone: 0755-23307380; E-mail: Services@swt-tech.com; Http:// www.swt-tech.com

受控编号：SWT-TRF-B27



《危险物品规则》
《Dangerous Goods Regulations》
《对危险货物运输的有关规定的建议》
《Recommendations on the Transport of Dangerous Goods Model Regulations》
《国际海运危险货物规则》
《International Maritime Dangerous Goods》
《危险品安全运输技术指令》
《Technical Instructions for the Safe Transport of Dangerous Goods》
《危险货物分类和品名编号》
《Classification and code of dangerous goods》
《职业安全卫生法》
《Occupational Safety and Health Act》 (OSHA)
《有毒物质控制法》
《Toxic Substance Control Act》 (TSCA)
《消费产品安全法》
《Consumer Product Safety Act》 (CPSA)
《联邦环境污染控制法》
《Federal Environmental Pollution Control Act》 (FEPCA)
《石油污染法案》
《The Oil Pollution Act》 (OPA)
《超级基金修正案和再授权法案III(302/311/312/313)》
《Superfund Amendments and Reauthorization Act TitleIII (302/311/312/313)》 (SARA)
《资源保护及恢复法案》
《Resource Conservation and Recovery Act》 (RCRA)
《安全饮用水法》
《Safety Drinking Water Act》 (CWA)
《加州65提案》
《California Proposition 65》
《美国联邦法规》
《Code of Federal Regulations》 (CFR)
根据所有联邦、州和地方法律。
In accordance with all Federal, State and local laws.

16. 其他信息 Other information

该电池的成分信息由委托方提供并承诺其完整性和准确性。用户应仔细阅读此文件，并按照正确的方法使用电池，如因电池使用不当造成的损害或损失，深圳市赛为检测技术有限公司不承担任何责任。

commissioner provides the composition information of batteries, and promises its integrity and accuracy. Users should read this file carefully, and use the batteries in correct method. Shenzhen Safe Win Testing Technology Co., Ltd doesn't assume responsibility for any damage or loss because of misuse of batteries.



17. 产品照片
Product photos



注意事项 Important

1. 本报告无检测单位印章无效。

The test report is invalid without the official stamp of SWT.

2. 未经本实验室书面同意，不得部分地复制本报告。

Nobody is allowed to photocopy or partly photocopy this test report without written permission of SWT.

3. 本报告无批准人、审核人及鉴定人签名无效。

The test report is invalid without the signatures of Ratifier, Reviewer and Testing engineer.

4. 本报告涂改无效。

The test report is invalid if altered.

5. 对检测报告若有异议，应于收到报告之日起十五天内向检测单位提出。

Objections to the test report must be submitted to SWT within 15 days.

6. 本报告仅对送检样品负责。

The test report is valid for the tested samples only.

7. 本报告仅供委托方内部质量控制使用，不对社会公开出具。

This report is only used for internal quality controlling of the client.

地址：深圳市宝安区福海街道和平社区永和路45号金丰智汇谷A栋厂房106、401

Address: 106, 401, Building A, Jinfeng industrial park, No.45 Yonghe Road, Heping Community, Fuhai Street, Baoan District, Shenzhen, Guangdong, China

邮政编码(Post Code): 518103

邮箱E-mail: Services@swt-tech.com

电话(Tel): 0755-23307380

网址Web: <http://swt-tech.com>

***** End of Report *****

