

No: BW20240217

安全数据表

Safety Data Sheet

样品名称: 可充电锂离子电池

Name of sample: Rechargeable Li-ion Battery

Client unit: Huizhou Blueway Electronics Co.,Ltd



惠州市蓝微电子有限公司
Huizhou Blueway Electronics Co.,Ltd

1. 化学品及企业标识 Chemical product and company identification	
样品名称 Name of Sample	可充电锂离子电池 Rechargeable Li-ion Battery
样品型号 Type/Mode	XFBT620 XSBT620EU 21.6V,1900mAh,41Wh
单位 Supplier	惠州市蓝微电子有限公司 Huizhou Blueway Electronics Co., Ltd.
单位地址 address	广东省惠州市仲恺高新区和畅五路西 101 号 101, West Hechang 5th Road, Zhongkai High-Tech Development Zone, Huizhou, Guangdong, China
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2. 危险性概述 Hazards identification	
爆炸危险性 Explosive risk	该物品不属于爆炸危险品 This article does not belong to the explosion dangerous goods
易燃危险性 Flammable risk	该物品不属于易燃危险品 This article does not belong to the flammable material
氧化危险性 Oxidation risk	该物品不属于氧化危险品 This article does not belong to the oxidation of dangerous goods
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
放射危险性 Radioactive risk	该物品不属于放射危险品 This article does not belong to the radiation of dangerous goods
腐蚀危险性 Mordant risk	该物品不属于腐蚀危险品 This article does not belong to the corrosion of dangerous goods
其他危险性 other risk	该物品为锂离子电池,瓦时率 41Wh, 属于锂离子电池 (包括锂离子聚合物电池) This article is Li-ion battery Watt hour rate 41Wh, which belong to the Lithium-ion batteries (including lithium ion polymer batteries).

3. 成分/ 组成信息 Composition information			
1. 纯品 Pure :		2. 混合物 Mixture: V	
材料及组分 Material or ingredient	化学式 Chemical Formula	CAS 号 CAS No.	重量含量 Wt %
Lithium Cobalt Oxide	LiCoO ₂	12190-79-3	35.05
Graphite 石墨	C ₂₄ X ₁₂	7782-42-5	15.98
Ethylene carbonate 碳酸乙烯酯	C ₃ H ₄ O ₃	96-49-1	6.34
Dimetyle cabonate	C ₃ H ₆ O ₃	616-38-6	4.38
Phosphate(1-), hexafluoro-,lithium 六氟磷酸锂	F ₆ LiP	21324-40-3	2.95
Copper 铜	Cu	7440-50-8	8.39

Aluminum 铝	Al	7429-90-5	9.38
Styrene-butadiene rubber(SBR)	C36H42X2	61789-96-6	0.71
Carbon black	C	1333-86-4	0.79
Hexafluoropropylene-vinylidene fluoride copolyme	C21H22Cl9N3O2	9011-17-0	9.87
Carbonate, methyl ethyl	C4H8O3	623-53-0	2.29
Diethyl carbonate(DEC)	C5H10O3	105-58-8	2.76
Propylene carbonate(PC)	C4H6O3	108-32-7	1.11

4. 急救措施

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 15minutes. 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 isunconscious. 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, CO 2 .

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

建议将电池完全放电，消耗电池内部的锂金属，并且深埋于土壤中。

Waste Disposal Method

It is recommended to discharge the battery to the end, to use up the metal lithium inside the battery, and to bury the discharged battery in soil.

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: 不规则形状

Appearance: Irregular shape

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 60°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 60°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 hydrocarbons.

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.

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 server 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 60°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 60°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, 第九类危险品标签, 仅限货机标签

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

UN 编号: UN3480 或 UN3481

UN Number: UN3480 or UN3481

包装等级: 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: UN3480 – PSN: 锂离子电池

UN3481 – PSN: 设备中含有锂离子电池或设备中装有锂离子电池。

Proper Shipping name: UN3480 – PSN: Lithium Ion Batteries.

UN3481 – PSN: Lithium Ion Batteries Contained in Equipment or Lithium Ion Batteries Packed with Equipment.

危害分类: 货物符合国际航空运输协会第 65 版本 DGR 中 965 IB 部分的要求或 967 条包装说明 第 II 部分的要求 (2024 年版) 和 特殊规定 188 海运危险货物规则 (Amdt.41-22)。该货物按照最新修正的 41-22 版的《国际海运危险货物规则》为非危险品。根据特别条款 188, 本条不受国际海事组织《国际海运危险货物规则》(41-22 版) 其他条款的约束。

Hazard Classification: Packaging complies with the requirements of section IB of Packing Instructions 965 or section II 967 of 65th DGR Manual of IATA (2024 edition) or special provision 188 of IMDG CODE (Amdt.41-22)。

The goods are classified as non-dangerous goods in accordance with the latest revision of the International Maritime Dangerous Goods Code (Amdt41-22), the article is not subject to other provisions of IMO IMDG Code according to special provision 188.

If those lithium-ion batteries are packed with or contained in an equipment, then it is the responsibility of the shipper to ensure that the consignment are packed in compliance to the latest edition of the IATA Dangerous Goods Regulations section II of either Packing Instruction 966 or 967 in order for that consignment to be declared as NOT RESTRICTED (non-hazardous/non-Dangerous). If those lithium-ion batteries are packed with or contained in an equipment, UN No. is UN3481.

15. 法规信息 Regulation information

法律信息

Law information

- 《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

以上信息正确，但不包含全部信息，仅供参考。本文件中的信息是基于我们现有的知识，它适用于本产品作为正确的安全提示。该信息不保证该产品的属性。产品如有损坏，本公司概不负责。

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