

Material Safety Data Sheet

化学品安全技术说明书

REPORT No.: 2601P29082A

Date: January 21, 2026

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Section 1 - Chemical Product and Company Identification

第一部分 - 化学品及企业标识

Chemicals Information 化学信息	
Samples 样品	QuikBeam lighting AST-QUKBM (Containing QuikBrick for QuikBeam Li-ion Battery ASTQUKBM-QBK 10.9V 3200mAh 35Wh) 福波斯舞台灯 AST-QUKBM (内置 QuikBrick for QuikBeam 锂离子电池 AST-QUKBM-QBK 10.9V 3200mAh 35Wh)
Model 型号	AST-QUKBM
Sample Receiving Date 收样日期	January 18, 2026 2026年01月18日
Recommended use 推荐用途	/
Restrictions on use 限制用途	/
Company Information 公司信息	
Applicant 申请商	Astera LED Technology GmbH
Client Address 客户地址	Schatzbogen 60, 81829 Munich, Germany
Manufacturer name 制造商	Astera Manufacturing Limited 猎光照明科技(深圳)有限公司
Manufacturer Address 制造商地址	101, 201, 301, 401, 501, Bldg. 3, CLT Science & Technology Park, No. 7, GanLiliu Road, Jihua subdistrict, Longgang District, Shenzhen, Guangdong Province, P.R. China
Telephone 电话号码	
Email 电子邮件	
Emergency Telephone Number 应急电话	/
National Chemical Accident Emergency Consultation Hotline 全国化学品事故应急咨询热线	/

Bay Area Compliance Laboratories Corp. (Shenzhen)

倍科电子技术服务(深圳)有限公司

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Section 2 - Composition, Information on Ingredients

第二部分 - 成分/组成信息

Classification of the substance, mixture or article

物质、混合物或物品的类别: substance 物质 mixture 混合物 article 物品

No.序号	Ingredient Name 成分名称	CAS No. CAS 号	Concentration(%) 浓度(%)
1	Metal: Zinc alloy + Stainless steel + Copper alloy 金属: 锌合金+不锈钢+铜合金	--	58.92
2	ABS+PC (塑料合金)ABS+PC (Polymer Alloy)	--	16.24
3	PVC (聚氯乙烯)	--	0.18
4	LCD (液晶显示屏)	--	0.19
5	PCB (印刷电路板)	--	7.49
6	Other (其他材料)	--	5.41

Detailed Battery Chemical Composition 电池详细化学成分

7	Lithium Cobalt Oxide(LiCoO2) (钴酸锂)	12190-79-3	11.57
8	Aluminum Foil (Al) (铝)	7429-90-5	
9	1.1-Difluoroethylene polymer (聚偏氟乙烯树脂)	24937-79-9	
10	Graphite (C) (石墨)	7782-42-5	
11	Copper Foil (Cu) (铜)	7440-50-8	
12	Styrene-Butadiene polymer (丁苯橡胶)	9003-55-8	
13	Lithium hexafluorophosphate (六氟磷酸锂)	21324-40-3	
14	Ethylene carbonate (碳酸乙烯酯)	96-49-1	
15	Dimelene carbonate (碳酸二甲酯)	616-38-6	
16	Carbonate, methyl ethyl (碳酸甲乙酯)	623-53-0	
17	Nickel (镍)	7440-02-0	

Note: CAS:Chemical Abstracts Service(Organization of the American Chemical Society)

注释: CAS 号是化学文摘服务注册号码

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Section 3 - Hazards identification

第三部分 - 危险性概述

Emergency Overview: This product is an electronic device. Under normal conditions of use, it does not pose significant chemical hazards. Primary potential hazards arise from:

Battery: The product contains a lithium-ion battery. When the battery is in extreme pressure deformation, high-temperature environment, overload, short-circuit condition, or disassemble the battery, an explosion of fire and chemical burn hazards may occur..

Physical Hazards: The device contains metal parts which may have sharp edges. Improper handling or disassembly may cause cuts.

紧急情况概述: 本产品为电子设备。在正常使用条件下, 不会造成严重的化学危害。主要潜在危险来自于:

电池: 产品含有锂离子电池。如果在强压变形、拆解、短路时有起火爆炸与化学烧伤等危险, 在高温环境或放置于火焰环境中、超负荷使用时有起火爆炸危险。

物理危害: 设备含有金属部件, 边缘可能锋利。不当处置或拆解可能造成割伤。

GHS Pictogram(s)/Label Elements: (apply to the battery component)

GHS 象形图/标签要素: (适用于电池部分): Flammable



Signal Word: Warning

信号词: 警告

Hazard Statements: H228: Flammable solid; H302: Harmful if swallowed.

危险性说明: H228: 易燃固体; H302: 吞咽有害。

Effects of the human health对人体健康影响:

Eyes 眼睛:

In normal condition, contact between the battery and eyes will not cause any harms. However, the gas Volatilize from a damaged battery may be harmful to eyes.

正常使用下无危害性, 但在拆解、弯曲、短路可能会引起电池起火爆炸伤害眼睛。破损时挥发出气体会对眼睛产生刺激。

Skin 皮肤:

In normal condition, contact between the battery and skin will not cause any harms. Contact with a damaged battery may cause skin allergies or chemical burns.

正常情况下接触无对皮肤危害性。在电池破损情况下接触有可能引起化学烧伤或皮肤过敏发炎症状。

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Inhalation 吸入:

A battery volatilizes no gas unless it was damaged. Damaged battery will volatilize little gas that may stimulate the respiratory tract or cause an anaphylaxis in serious condition.

完好电池并无挥发出可供吸入气体情况。破损时会挥发出微量气体会刺激呼吸道，严重者可能引起过敏反应。

Ingestion 食入:

Swallowing battery will be damaged to the respiratory tract and cause chemical burns to the stomach; in serious conditions it will cause Permanent damage.

食入会对呼吸道产生伤害、对肠胃产生烧伤，严重会造成永久性损害

Section 4 - First Aid Measures

第四部分 - 急救措施

General Advice: If discomfort occurs due to equipment malfunction or damage, discontinue use immediately and move to fresh air.

一般建议：如因设备故障或损坏导致不适，应立即停止使用并移至通风良好处。

Eyes眼睛:

If your eyes contact with a damaged battery, flush with copious amount of water for at least 15 minutes until the stinging and irritation subside, and Seek immediate medical attention.

如有接触损坏电池，立即用清水清洗眼睛15 分钟以上直至刺痛/刺激感消失为止，并及时去就医。

Skin皮肤:

If your skin contact with a damaged battery, immediately take off contaminated clothing and flush your skin with copious amount of water or have a shower. Seek immediate medical attention if burning sensation continues.

如有接触，立即脱下被污染衣服并用大量清水冲洗皮肤或淋浴，如灼伤感持续立刻去就医。

Inhalation (from battery leakage) 吸入(电池泄漏气体):

Remove to fresh air immediately and have a rest, If you feel dyspnea, dizziness or headache, seek immediate medical attention.

立刻转移到空气新鲜环境下呼吸新鲜空气，休息。如出现呼吸困难或头晕头痛等症状立刻请人陪同去就医。

Ingestion食入:

If battery or open battery is ingested, do not induce vomiting or give food or drink. Seek medical attention immediately.

如果食入电池，不要催吐且不要再吃下食物或喝饮料，立刻就医

Note to Physician: Treat symptomatically. Electrolyte may produce corrosive hydrofluoric acid upon contact with moisture (if fluorides are present). Treat accordingly for chemical burns.

给医生的提示：对症治疗。电池电解液接触水分可能产生腐蚀性氢氟酸（如果含有氟化物），需按相关化学灼伤处理。

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Section 5 - Fire fighting measures

第五部分 - 消防措施

Suitable Extinguishing Media: For device fire, use CO₂, dry chemical, or sand. Do NOT use water directly on battery fire unless a large quantity can be applied for continuous cooling.

适用灭火剂: 对于设备火灾, 可使用二氧化碳、干粉或砂土。严禁用水直接扑救电池火灾, 除非有大量水源能持续冷却。

Specific Hazards: This battery can get fire easily and made a lot of smoke under the forced bending and short-circuit condition, so it should be properly used and placed in a cool environment and Avoid placing the battery package under heat, pressure and direct sunlight. In the event of fire, wear gas masks and cool the adjacent batteries and control the spread of fire with water or extinguishers, separate the fire batteries with other batteries as conditions permit, let the fire naturally extinguished, otherwise put out the fire with lots of water. In normal condition the fire is not extinguished until the reactions that between the chemicals contained in the battery are completed. In the event of a big fire, report the fire immediately and evacuate to a safe place..

特殊危害: 此产品在强压弯曲或短路等情况下容易起火并冒出大量烟雾, 应正确使用并置于阴凉环境下, 避免放置在高温、日光照射及受重压的地方。如发生起火, 戴上防毒面具在条件允许情况下洒水或用灭火器让毗邻的未起火电池降温避免火势蔓延并用工具把起火电池和其他电池分离, 让其自然熄灭; 或用大量的水灭火, 但起火电池一般都会在内外部化学物质反应完后火才熄灭下来。如果有电池起火火势较大, 立刻报火警并疏散人员到安全地方。

Section 6 - Accidental release measures

第六部分 - 泄露应急处理

Personal Precautions: Wear appropriate PPE (gloves, eye protection).

个人防护: 穿戴适当的个人防护装备 (手套、护目镜)。

Environmental Precautions: Prevent from entering drains or soil. Damaged/leaking batteries should be treated as chemical hazards. Absorb with inert material (e.g., sand) and place in dedicated container for disposal by licensed waste handler, Do not throw away the damaged batteries or waste batteries.

环境措施: 防止泄漏物进入下水道或土壤。对于破碎/泄漏的电池, 应视为化学危险品处理, 用惰性材料 (如砂土) 吸附并置于专用容器内, 交由有资质的废物处理公司处置, 避免电池弃扔到自然环境中。

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Section 7 - Handling and storage

第七部分 - 操作处置与储存

Handling: Avoid physical damage, especially to the battery. Do not assemble and disassemble a battery, battery short-circuit is not allowed too. Keep the battery away from the fire. When transporting these batteries, the battery should be careful handling to avoid the battery being squeezed or excessive vibration..

操作: 避免物理损坏, 特别是电池部位。不能擅自组装拆解电池或短路, 不能让电池接近火源。运输电池应避免暴力装卸电池货物、避免电池受到挤压或剧烈振动。

Storage: Store in a cool, dry, well-ventilated place. Keep away from heat sources, open flames, and combustibles. Avoid prolonged exposure to extreme temperatures (>40°C or <-20°C).

储存: 存放于阴凉、干燥、通风处。远离热源、火源和易燃物。避免长期暴露于极端温度(高温>40° C 或低温<-20° C)。

Section 8 - Exposure controls/ personal protection

第八部分 - 接触控制和个体防护

Engineering Controls 工程控制:

Not required under normal use. Choose the suitable ventilation equipment; provide sufficient quantity of fire extinguishers, gas mask and water; equip with metal storage containers and bathing equipments. during repair or disassembly.

正常使用无需特殊控制。维修或拆解时应选择合理的通风设备, 足够量的防毒面具灭火器及水源, 配备存放泄漏电池的金属容器, 配备洗浴设备。

Respiratory protection 呼吸系统防护:

Normally there is no need to do protection. 正常情况下无必要作防护

Eye protection 眼睛防护:

Normally there is no need to do protection. 正常情况下无必要作防护

The body and skin protection 身体和皮肤防护:

Normally there is no need to do protection. 正常情况下无必要作防护

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Section 9 - Physical and chemical properties

第九部分 - 理化特性

Information on basic physical and chemical properties:

基本物理和化学性质信息:

Appearance 外形:	Solid, various colors/shapes 固体, 多种颜色/形状
Odor 气味:	Odorless 无气味
pH 酸碱度	Not applicable (for the whole product). 不适用(整体产品)。
Flash Point 闪点	Not applicable unless individual components exposed. 除非单个的组件暴露, 否则不适用。
Flammability 易燃度	Not applicable unless individual components exposed. 除非单个的组件暴露, 否则不适用。
Relative density: 相对密度	Not applicable unless individual components exposed. 除非单个的组件暴露, 否则不适用。
Solubility (water) 溶解性 (水溶性)	Not applicable unless individual components exposed. 除非单个的组件暴露, 否则不适用。
Solubility (other) 溶解性 (其他)	Not applicable unless individual components exposed. 除非单个的组件暴露, 否则不适用。

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Section 10 - Stability and reactivity

第十部分 - 稳定性和反应性

Stability: Stable under regular environment.

稳定性: 正常环境下稳定。

Conditions to Avoid: High temperature, open flame, short circuit, mechanical damage, moisture (may cause circuit orrosion).

应避免的条件: 高温、明火、短路、机械损伤、潮湿（可能导致电路腐蚀）。

Incompatible Materials: Strong oxidizers, strong acids, strong bases (may corrode metal and plastic parts).

不相容的物质: 强氧化剂、强酸、强碱（可能腐蚀金属和塑料部件）。

Hazardous decomposition products 危险的分解产物:

When the battery catches fire, it will release pungent thick smoke.

在起火时会释放出刺鼻的浓烟雾。

Section 11 - Toxicological information

第十一部分 - 毒理学信息

Potential Effects Based on Components:

Battery Electrolyte: Irritant, may cause chemical burns to respiratory tract, skin, and eyes. Thermal decomposition products are highly toxic.

Plastics/Metals: Generally low toxicity in solid form. However, inhalation of fumes from thermal decomposition/combustion is hazardous.

根据组分潜在影响:

电池电解液: 刺激性，可能对呼吸道、皮肤和眼睛造成化学灼伤。热分解产物剧毒。

塑料/金属: 固态形式下通常无显著毒性。但吸入塑料或金属在高温分解/燃烧产生的烟雾有害。

Section 12 - Ecological information

第十二部分 - 生态学信息

Ecotoxicity: Plastics and metals are not readily degradable. Cobalt, nickel, lithium, and electrolyte salts in batteries are harmful to aquatic and soil organisms.

生态毒性: 塑料和金属在环境中不易降解。电池中的钴、镍、锂、电解质盐类对水生和土壤生物有害。

Persistence and Degradability: Persistent.

持久性和降解性: 持久性。

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Section 13 - Disposal considerations

第十三部分 - 废弃处置

Waste Product:

This product is Waste Electrical and Electronic Equipment (WEEE). Do NOT dispose of with household waste. It must be recycled or treated by designated e-waste recyclers or hazardous waste handlers in accordance with local regulations.

废弃产品:

本产品属于电子电气废弃物 (WEEE), 严禁与生活垃圾一同丢弃。必须按照当地法规, 交由指定的电子废物回收机构或危险废物处理商进行回收或处理。

Section 14 - Transport information

第十四部分 - 运输信息

Packing Instruction 包装说明: PI965 IB.

Proper Shipping Name/Description 运输专用名称: Lithium ion batteries. 锂离子电池。

Hazard Label 运输标签: Lithium or sodium battery label. 锂电池或钠电池标签。

Hazard Class 危险性类别: 9

UN Number UN 编号: UN3480

Packing Group 包装等级: /

Marine pollutant 海洋污染物: NO

IATA DGR (66th) 空运:

Can be carried out in accordance with the ICAO, TI, or IATA DGR(66th) Packing Instructions Section IB 965 Air transportation.

可以根据国际民用航空组织(ICAO), TI 或国际航空运输协会(IATA)DGR 第 66 版本说明第 PI965 IB 进行空运。

IMDG (2024 Edition) 海运:

The batteries are not restricted to IMDG Code 2024 Edition (Amdt 42-24) according to special provision 188.

根据特殊规定 188, 该电池不受 IMDG Code 2024 版(Amdt 42-24)限制。

RID (2025 Edition) 铁路:

Packaging for railway transportation can be carried out in accordance with the relevant provisions of the RID (2023 edition) European Agreement concerning the International Carriage of Dangerous Goods by Rail.

可按 RID (2025 版)《国际危险货物铁路运输欧洲协定》相关规定进行包装铁路运输。

ADR (2025 Edition) 陆运:

Packaging road transportation can be carried out in accordance with the relevant provisions of the ADR (2023 version) European Agreement concerning the International Carriage of Dangerous Goods by Road.

可按 ADR (2025 版)《国际危险货物道路运输欧洲协定》相关规定进行包装道路运输。

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Remark 备注:

Lithium-ion cells and batteries must be transported in a state of charge (SoC) not exceeding 30% of their rated capacity.

1. 锂离子电池芯和电池必须在荷电状态（SoC）不超过其额定容量的 30% 状态下进行运输。

The battery must be protected against short circuits, including preventing contact with conductive materials that may cause short circuits within the same packaging and completely enclosing it in the inner packaging before placing it in the outer packaging.

2. 电池必须加以保护防止短路，包括防止与同一包装件内可能导致短路的导电材料接触和将其完全封闭的内包装中，再放入外包装。

Manufacturers and subsequent distributors of cells and batteries manufactured shall make available the test summary as specified in the manual of tests and criteria, Part III, sub-section 38.3, paragraph 38.3.5.

3. 锂离子电池芯和电池的制造商和生产后的销售商应提供联合国《试验和标准手册》第 III 部分第 38.3 小节第 38.3.5 段规定的 UN38.3 试验概要。

Section 15 - Regulatory information

第十五部分 - 法规信息

China Regulations: Complies with "Regulations on the Safety Management of Hazardous Chemicals", "Management Methods for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products" (China RoHS), etc.

中国法规: 符合《危险化学品安全管理条例》、《电子电气产品有害物质限制使用管理办法》(中国 RoHS)等相关规定。

International Regulations: Contains lithium-ion batteries, subject to relevant transport regulations (e.g., IMO IMDG Code, IATA DGR, ADR) and waste regulations (e.g., EU WEEE Directive, Battery Directive).

国际法规: 含有锂离子电池，受相关运输法规（如 IMO IMDG Code, IATA DGR, ADR）及废弃物法规（如欧盟 WEEE 指令、电池指令）管辖。

Dangerous Goods Regulations 《危险品规则》

IMO International Maritime Dangerous Goods Code relevant regulations. 《国际海运危险货物规则》

Refer to U. N., national, local regulations.

参照联合国，国家，地方性法规。

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Section 16 - Other information

第十六部分 - 其他信息

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Photograph of Sample
样品照片



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Disclaimer:

The format of this safety technical specification meets the requirements of GB/T 16483 and GB/T 17519 in China. The data are from authoritative databases and data submitted by enterprises at home and abroad. The other information is based on the knowledge that the company currently has. We try our best to ensure the correctness of all the information, but due to the diversity of information sources and the limitations of our knowledge, this document is only for users' reference. Users of safety technical specifications should judge the rationality of relevant information according to the purpose of use. We are not liable for any damage caused by the operation, storage, use or disposal of the product.

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*** End of MSDS ***

*** 结束 ***

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