安全技术说明书
Safety Data Sheet

委托单位名称: Applicant's Name:	东莞市百斯科实业有限公司 DONGGUAN BESKY INDUSTRIAL CO., LTD.
物品名称: Name of Goods:	移动电源 P322.24 10000mAh 37Wh Power Bank P322.24 10000mAh 37Wh
测试机构: Testing By:	深圳市元素检测有限公司 Shenzhen Element Testing Co., Ltd.
测试机构地址: Testing Institution Address:	深圳市龙岗区坪地街道坪西社区龙岭北路 76 号 2 号厂房 401、4 号厂房 101 邮编 518117 101 of Plant 4, & 401 of Plant 2, No.76, Longling North Road, Pingxi, Pingdi Subdistrict, Longgang District, Shenzhen, Guangdong, China/518117
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报告单位（盖章）
Stamp

深圳市元素检测有限公司 检验检测专用章

第一部分 物质或混合物和供应商的标识

Section 1 Identification of the substance/mixture and of the company/undertaking

样品名称 Sample Name	移动电源 Power Bank		样品型号 Sample Model	P322.24	
额定容量 Rated Capacity	10000mAh		额定能量 Rated Energy	37Wh	
样品尺寸 Sample Size (L×W×T)	(146.0×65.6×16.2)mm	电池质量 Battery Mass	251.4g	重量比能量 Gravimetric Specific Energy	147.18Wh/kg
委托单位名称 Applicant's Name	东莞市百斯科实业有限公司 DONGGUAN BESKY INDUSTRIAL CO., LTD.				
委托单位地址 Applicant's Address	广东省东莞市沙田镇成田路 20 号 No. 20, Chengtian Road, Shatian Town, Dongguan City, Guangdong Province				
制造商名称 Manufacturer's Name	东莞市百斯科实业有限公司 DONGGUAN BESKY INDUSTRIAL CO., LTD.				
制造商地址 Manufacturer's Address	广东省东莞市沙田镇成田路 20 号 No. 20, Chengtian Road, Shatian Town, Dongguan City, Guangdong Province				
电话 Telephone	+86-15012665292	应急电话 Emergency telephone	+86-15012665292	邮箱 Email	sara@szibesky.com

产品的推荐用途和限制用途

Relevant identified uses of the substance or mixture and uses advised against

建议用途 Recommended Use	用于消费品 Used in consumer goods
限制用途 Uses advised against	无资料 No information available

第二部分 危险标识
Section 2 Hazards Identification

2.1 物质或混合物的分类
Classification of the substance or mixture

根据联合国 GHS 制度第 10 修订版要求分类

According to the classification requirements of the 10th revision of the United Nations GHS system

不适用（不在联合国 GHS 制度第 10 修订版范围内）

Not applicable (Not within the scope of the 10th revised edition of the UNITED NATIONS GHS system)

2.2 标签要素 Label elements

象形图	不适用
Symbols/Pictograms	Not applicable
信号词	不适用
Signal word	Not applicable
危险说明	不适用
Hazard Statements	Not applicable

防范说明 Precautionary statements

预防措施	不适用
Prevention	Not applicable
事故响应	不适用
Response	Not applicable
安全储存	不适用
Storage	Not applicable
废弃处置	不适用
Disposal	Not applicable

2.3 危害描述 Hazard description

与电池电解液接触可能会刺激皮肤、眼睛和粘膜。火灾会产生刺激性、腐蚀性和/或有毒气体。烟雾可能导致头晕或窒息。

Contact with the electrolyte of battery may be irritating to skin, eyes and mucous membranes. Fire will produce irritating, corrosive and/or toxic gases. Fumes may cause dizziness or suffocation.

正常条件下根据制造商的说明使用电池不会产生危害。使用不当的情况下，有破裂、起火、发烫、内部成分泄露的危险，并可能造成意外损失。使用不当的行为包括但不仅限于下列情况：长时间充电、短路、投入火中、硬物撞击、尖物刺破、破碎和破裂。

Using the battery under normal conditions according to the manufacturer's instructions is not hazardous. In the case of improper use, there is a risk of rupture, fire, hot, leakage of internal components, and may cause accidental losses. Improper use includes, but is not limited to, the following conditions: prolonged charging, short circuit, fire exposure, hard object impact, sharp object puncture, fragmentation and rupture.

第三部分 成分/组成信息

Section 3 Composition, Information on Ingredients

化学名称 Chemical composition	化学式 Chemical formula	CAS 号 CAS No.	浓度或浓度范围 Concentration or concentration ranges (%)
钴酸锂 Lithium Cobalt Oxide	$LiCoO_2$	12190-79-3	25-50
铝 Aluminum	Al	7429-90-5	2-10
聚偏氟乙烯 PVDF	$(C_2H_2F_2)n$	24937-79-9	0-5
石墨 Graphite	C	7782-42-5	20-30
铜 Copper	Cu	7440-50-8	5-10
聚乙烯 Polyethylene	$(C_2H_4)n$	9002-88-4	5-10
聚丙烯 Polypropylene	$(C_3H_6)n$	9003-07-0	5-10
六氟磷酸锂 LiPF6	$LiPF_6$	21324-40-3	10-20
镍 Nickel	Ni	7440-02-0	0.5-5

注意: CAS 号是化学文摘服务注册号码。N/A =不适用

Note: CAS number is Chemical Abstract Service Registry Number. N/A=Not apply

第四部分 急救措施
Section 4 First Aid Measures

4.1 急救措施的描述
Description of first aid measures

一般建议 **General advice**	如果发生意外或不适，立即寻求医疗帮助。 In case of accident or unwellness, seek medical advice immediately.
吸入 **After inhalation**	如果吸入烟气或燃烧的产物，迅速脱离现场至空气新鲜处，保持呼吸通畅，若感到不适，寻求医生帮助。 If fumes or combustion products are inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
摄入 **Ingestion**	用清水冲洗嘴巴，然后喝大量的水，催吐，并就医。 Give water to rinse out mouth, then drink plenty of water, vomiting, and go to a doctor.
皮肤接触 **Skin contact**	无明显症状，如果皮肤出现持续刺激，请就医。 No apparent symptoms. If skin irritation persists, call a physician.
眼睛接触 **Eye contact**	提起眼睑，用流动清水或生理盐水冲洗至少 15 分钟，若仍有刺激感，立即就医。 Keep eyelids apart and away from eye and moving the eyelids by lifting the upper and lower lids occasionally, flush eyes with plenty of water or saline water for at least 15 minutes, call a physician if irritation persists.
急救人员的防护 **Protecting of first-aiders**	确保医护人员了解产品的危害特性，并采取自身防护措施，以保护自己和防止污染传播。 Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

4.2 最重要的症状和效果，急性和延迟
Most important symptoms and effects, both acute and delayed

有限的证据表明反复或长期职业接触可能会产生涉及器官或生化系统累积性的健康影响

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

4.3 紧急医疗处理和特殊处理的说明
Indication of any immediate medical attention and special treatment needed

根据症状治疗，注意症状可能会出现延迟。

Treat symptomatically, Symptoms may be delayed.

第五部分 消防措施
Section 5 Fire Fighting Measures

5.1 灭火介质 Extinguishing media

合适的灭火剂	使用适用于周围环境的灭火介质
Suitable extinguishing media	Use fire extinguishing media suitable for the surrounding environment
不合适的灭火剂	无资料
Unsuitable extinguishing media	No information available

5.2 源于此物质或混合物产生的特殊危害
Special hazards arising from the substance or mixture

燃烧时可能分解，产生刺激性、腐蚀性或有毒烟雾。烟雾可能引起头晕或窒息。

May decompose upon combustion to generate irritating, corrosive or toxie fumes. Fumes may cause dizziness or suffocation.

5.3 对消防人员的建议 Advice for firefighters

消防人员应佩戴自给式呼吸器和全套的消防服；

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear;

用任何方式，防止泄漏进入下水道或河道；

Prevent, by any means available, spillage from entering drains or water courses;

用水作为一个很好的喷雾控制火和冷却的邻近区域。

Use water delivered as a fine spray to control fire and cool adjacent area.

第六部分 泄露应急处理
Section 6 Accidental Release Measures

6.1 个人预防措施、防护装备和应急程序
Personal precautions, protective equipment and emergency procedures

如果电池材料被释放，请撤离该区域，直到烟雾消散。提供最大程度的通风，清除有害气体。最好的反应是离开该区域，在电池冷却和蒸汽消散后处理掉外壳。提供最大程度的通风。避免皮肤和眼睛接触或吸入蒸汽。

If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area, dispose the case after the batteries cool and vapors dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors.

6.2 环境保护措施
Environmental precautions

防止产品进入下水道。

Prevent product from entering drains

6.3 收集和清理的方法和材料

Methods and material for containment and cleaning up

收集和转移到合适的带标签的容器中，避免落灰。

Pick up and transfer to properly labeled containers. Avoid generation of dust

6.4 参考其他部分

Reference to other sections

个人防护设备建议见 SDS 第 8 部分。

Personal Protective Equipment advice is contained in Section 8 of the SDS.

废弃处置建议见 SDS 第 13 部分。

Disposal considerations advice is contained in Section 13 of the SDS.

第七部分 操作处置与储存

Section 7 Handling and Storage

7.1 安全操作注意事项 Precautions for safe handling

具体的安全处理建议：不要将电池扔进火中或暴露在高温下。不要将电池浸泡在水中或海水中。不要暴露在强氧化剂中。不得造成强烈的机械冲击或摔倒。切勿拆卸、修改或变形。请勿用导电材料连接正极和负极。

Specific safe handling advice: Never throw out cells in a fire or expose to high temperatures. Do not soak cells in water and seawater. Do not expose to strong oxdizers. Do not give a strong mechanical shock or throw down. Never disassemble, modify or deform. Do not connect the positive terminal to the negative terminal with electrically conductive material.

7.2 安全储存条件,包括任何不相容性

Conditions for safe storage, including any incompatibilities

请勿将电池单体放置在加热设备附近，也不要长时间暴露在阳光直射下。温度升高会缩短电池寿命，降低电池性能。保存在阴凉的地方。不兼容产品:导电材料、水、海水、强氧化剂、强酸。配备相应品种和数量的消防设备和泄漏应急处理设备。

Do not place the battery cell near heating equipment, nor expose to direct sunlight for long periods. Elevated temperatures can result in shortened battery cell life and degrade performance. Store in cool place. Incompatible products: Conductive materials, water, seawater, strong oxidizers and strong acids. Equipped with corresponding varieties and number of fire equipment and leakage emergency treatment equipment.

7.3 特定用途 Reference to other sections

除第 1.2 部分提及的用途外，未预见其它具体用途。

In addition to use mentioned in the Section 1.2, unforeseen other specific end uses.

第八部分 接触控制/个体防护
Section 8 Exposure Controls / Personal Protection

8.1 控制参数 Control parameters

职业接触限值 **Occupational Exposure Limit, OEL**	无相关规定 No relevant regulations
生物限值 **Biological limit values**	无相关规定 No relevant regulations
预测的无效应浓度 **Predicted No Effect Concentration (PNEC)**	无相关规定 No relevant regulations
衍生的无效应水平 **Derived No effect level. DNEL**	无相关规定 No relevant regulations

8.2 接触控制 Exposure control

工程控制 **Engineering Controls**	保持充分的通风，特别在封闭区内；确保在工作场所附近有洗眼和淋浴设施；使用防爆电器、通风、照明等设备；设置应急撤离通道和必要的泄险区。 Ensure adequate ventilation, especially in confined areas, Ensure that eyewash stations and safety showers are close to the workstation location, Use explosion-proofelectrical/ventilating/lighting/equipment, Set up emergency exit and necessary risk-elimination area.

8.3 个人防护设备 Personal protective equipment

眼睛防护 **Eye protection**	必须佩戴合适的防腐蚀护目镜。 Must wear appropriate anti-corrosion goggles.
手部防护 **Hand protection**	必须戴耐酸碱的化学防护手套。 Must wear acid and alkali resistant chemical protective gloves.
呼吸系统防护 **Respiratory protection**	必须佩戴合适的个人呼吸防护用品。 Must wear appropriate personal respiratory protective equipment.
皮肤和身体防护 **Skin and body protection**	必须穿抗酸碱化学防护服。 Must wear acid and alkali resistant chemical protective clothing.

第九部分 理化特性
Section 9 Physical and Chemical Properties

9.1 理化特性
Information on basic physical and chemical properties

物理状态	固体
Physical State	Solid
颜色	黑色和灰色
Color	Black And Gray
气味	无气味
Odor	Odorless
嗅觉阈值	不适用
Odor threshold	Not applicable
pH 值	不适用
pH	Not applicable
熔点-凝固点	不适用
Melting/freezing point	Not applicable
沸点-沸腾范围	不适用
Boiling Point, initial boiling point and Boiling range	Not applicable
闪点（闭杯，℃）	不适用
Flash Point (Closed cup, ℃)	Not applicable
蒸发率	不适用
Evaporation rate	Not applicable
可燃性	无资料
Flammability	No information available
可燃性或爆炸性上/下限	无资料
Upper/lower flammability or explosive limits	No information available
蒸汽压	不适用
Vapor pressure	Not applicable
相对蒸汽密度（空气=1）	不适用
Vapor density (Air=1)	Not applicable
相对密度（水=1）	不适用
Density/relative density (Water=1)	Not applicable
溶解性	不适用
Solubility	Not applicable

辛醇/水分配系数 **n-octanol/water partition coefficient**	不适用 Not applicable
自燃温度（℃） **Autoignition temperature**	不适用 Not applicable
分解温度（℃） **Decomposition temperature**	无资料 No information available
运动粘度（mm^2/s） **Kinematic viscosity (mm^2/s)**	不适用 Not applicable

9.2 其他信息 Other information

无资料

No information available

第十部分 稳定性和反应性

Section 10 Stability and Reactivity

10.1 反应性 Reactivity

与不相容物质接触可发生分解或其它化学反应。

Contact with incompatible substances can cause decomposition or other chemical reactions.

10.2 化学稳定性 Chemical stability

在正确的使用和存储条件下是稳定的。

Stable under proper operation and storage conditions.

10.3 危险反应的可能性 Possibility of hazardous reactions

与氧化剂反应剧烈，有引起燃烧爆炸的危险。具有可燃性，其气体（或粉末）与空气接触可形成爆炸性混合物,与金属烷氧化物接触会发生着火。

In contact with oxidants causes severe reactions, and may cause a fire or explosion. Flammable, its gas or powder, if in contact with air, may form explosive mixtures. In contact with metal alkoxides may cause a fire.

10.4 避免的条件 Conditions to avoid

不要使电池受到机械冲击。远离明火、高温。

Do not subject battery to mechanical shock. Keep away from open flames, high temperature.

10.5 禁配物 Incompatible materials

导电材料、水、海水、强氧化剂、强酸。

Conductive materials, water, seawater, strong oxidizers and strong acids.

10.6 有害的分解产物 Hazardous decomposition products

碳氧化物、其他刺激性和有毒气体。

Carbon oxides, other irritating and toxic gases.

第十一部分 毒理学信息
Section 11 Toxicological Information

11.1 危险类别信息 Information on hazard classes

急毒性 **Acute toxicity**	根据现有资料，不符合分类标准。 According to the available information, it does not meet the classification criteria.
皮肤腐蚀/刺激 **Skin corrosion/irritation**	如果在内容物暴露的情况下，蒸汽烟雾可能对皮肤和眼睛非常刺激。 In the event of exposure to internal contents, vapor fumes may be very irritating to the skin and eyes
严重眼损伤/眼睛刺激 **Serious eye damage/eye irritation**	如果在内容物暴露的情况下，蒸汽烟雾可能对皮肤和眼睛非常刺激。 In the event of exposure to internal contents, vapor fumes may be very irritating to the skin and eyes
致敏作用 **Sensitization**	不适用 Not applicable
生殖细胞突变性 **Germ cell mutagenicity**	不适用 Not applicable
致癌性 **Carcinogenicity**	不适用 Not applicable
生殖毒性 **Reproductive toxicity**	不适用 Not applicable
特定目标器官毒性-单次接触 **STOT - single exposure**	不适用 Not applicable
特定目标器官毒性-反复接触 **STOT - repeated exposure**	不适用 Not applicable
吸入性危害 **Aspiration hazard**	不适用 Not applicable

11.2 其他危险信息 Information on other hazards

内分泌干扰物特性
Endocrine disrupting properties
无可用资料
No information available

其他信息 Other Information
见第 11.1 节
See Section 11.1

第十二部分 生态学信息
Section 12 Ecological Information

12.1 水毒性 Toxicity
无可用资料
No information available

12.2 持久性和降解性 Persistence and degradability
无可用资料
No information available

12.3 生物积累的潜在可能性 Bioaccumulative potential
无可用资料
No information available

12.4 土壤中移动性 Mobility in soil
无可用资料
No information available

12.5 PBT 和 vPvB 的结果评价 Results of PBT and vPvB assessment
无可用资料
No information available

12.6 内分泌干扰物特性 Endocrine disrupting properties
无可用资料
No information available

12.7 其他不利影响 Other adverse effects
无可用资料
No information available

第十三部分 废弃处置
Section 13 Disposal Considerations

废弃物处置方法 **Waste treatment methods**	
产品处理建议 **Product disposal recommendation**	处置之前应参阅国家和地方有关法规。 National and local regulations should be referred to before disposal.
包装处理建议 **Packaging disposal on**	容器可以回收或者重用,遵守国家和地方有关法规。 Packaging disposal recommendation: Containers may be recycled or re-used Observe National and local regulations.
废弃注意事项 **Attention for waste treatment**	废电池不能当作普通垃圾。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。 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.

第十四部分 运输信息
Section 14 Transport Information

联合国危险货物编号 UN Number	UN3480	
运输专用名称 Shipping Name	锂离子电池（包括锂离子聚合物电池）（荷电状态不得超过其额定容量的 30%）。 Lithium ion batteries (including lithium ion polymer batteries) (Suggested limited to a maximum of 30% SoC).	
UN 分类（运输危险类别） UN Classification (Transport hazard class)	IATA	9 类 Class 9
	IMDG	9 类 Class 9
国际民间航空组织 / 国际航空运输协会 ICAO / IATA	可根据国际民用航空组织（ICAO），TI 或国际航空协会（IATA）DGR 67th（2026 年版）包装说明 PI 965 第 IA 部分相关规定进行空运。 Can be shipped by air in accordance with International Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA), DGR Packing Instructions PI 965 Section IA appropriate of IATA DGR 67th (2026 Edition) for transportation.	
国际海运危险货物规则 IMDG CODE	可根据 IMDG Code 2024 版（Amdt42-24）相关规定进行海运。 Shipping may be done in accordance with the IMDG Code 2024 Edition (Amdt 42-24).	
国际道路运输危险货物协定 / 国际铁路运输危险货物规则 ADR / RID	可根据 ADR 2025 / RID 2025 相关规定进行运输。 Shipping may be done in accordance with the ADR 2025 / RID 2025.	
此外，每个锂电芯和电池类型都必须通过联合国《关于危险货物运输的建议书 试验和标准手册》第 38.3 节规定的适用测试。电池应做好防短路措施。 In addition, to be permitted in transport each lithium cell and battery types must have passed the applicable tests set out in Subsection 38.3 of the UN Manual of Tests and Criteria. The batteries should be well protected against short circuits.		

第十五部分 法规信息

Section 15 Regulatory Information

15.1 针对该物质或混合物的安全，健康和环境法规/立法

Safety, health and environmental regulations/legislation specific for the substance or mixture

国际化学品名录

International chemical inventory

关于运输，引用和考虑了以下法规：

With regard to transport, the flowing regulations are cited and considered:

关于危险货物运输的建议书规章范本(TDG)

Recommendations on the Transport of Dangerous Goods Model Regulations (TDG)

国际民用航空协会《危险品规则》 (IATA-DGR)

International Civil Aviation Association Dangerous Goods Regulation (IATA-DGR)

国际海运危险货物规则(IMDG-CODE)

International Maritime Dangerous Goods Code (IMDG-CODE)

国际铁路运输危险货物规则(RID)

International Railway Transport Dangerous Goods Regulations (RID)

国际公路运输危险货物协定(ADR)

Agreement on the International Carriage of Dangerous Goods by Road (ADR)

国际内河运输危险货物协定(ADN)

Agreement on the International Carriage of Dangerous Goods by Inland Waters (ADN)

联合国《关于危险货物运输的建议书试验和标准手册》

Recommendations on the Transport of Dangerous Goods-Manual of Tests and Criteria

《国际航空运输协会》(IATA)

International Air Transport Association (IATA)

《危险货物安全运输技术指南》

Technical Instructions for the Safe Transport of Dangerous Goods

《危险货物分类和品名编号》

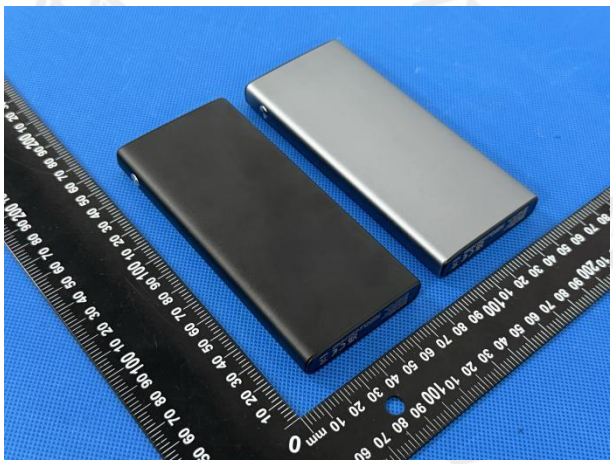
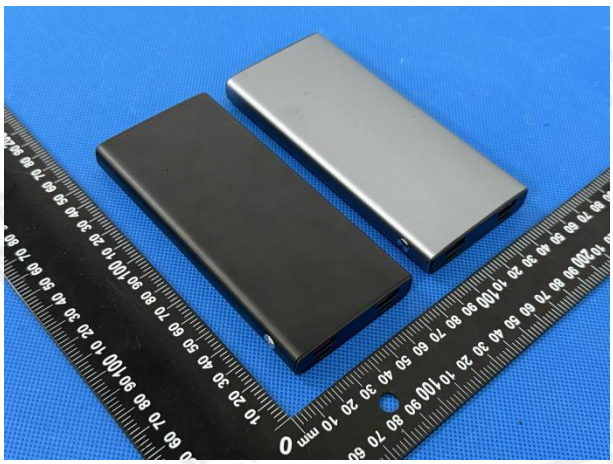
Classification and code of dangerous goods

《职业安全与健康标准》危险通信标准

OSHA Hazard Communication Standard

第十六部分 其他信息
Section 16 Additional Information

样品图片 Sample Picture

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--报告结束--
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