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Report No.: TSZ23110701-P11-R02

材料安全数据表

Material Safety Data Sheet

本报告本年度有效有效期至2024年12月31日

样品名称: 镍氢电池

Sample name: Ni-MH Battery

样品型号:

Ni-MH AA2600mAh 1.2V

Sample model:

委托单位: 深圳市比苛电池有限公司

Applicant: SHENZHEN PKCELL BATTERY CO.,LTD

签发时间 Date of issue: 2023.12.07

Written by 为顾即 Approved by 段27

深圳天湖计量检测股份有限公司

Shenzhen Tiansu Calibration and Testing Co., Ltd.

(01 - 03)





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* The MSDS is prepared based on the information provided by client. The contents and formats of this MSDS are revised as per client's request. 这份材料安全数据表是根据客户提供的信息编辑,其内容和格式按客户要求来修订。

Section 1-Chemical Product and Company Identification			
	第一部分-化学品及企业标识		
产品名称	镍氢电池		
Product Name	Ni-MH Battery		
	Ni-MH AA2600mAh 1.2V		
型号	A、4/3A、7/5A、1/3AA、2/3AA、4/5AA、7/5AA、AAA、1/3AAA、2/3AAA、		
Model	1/2AAA、4/3AAA、AAAA、F6、33F6、36F6、30F6、47F6、67F6、C、		
	1/2C、D、1/2D、F、SC、1/2SC、4/5SC、17670、18670、9V		
商标			
Trade Mark			
制造商	深圳市比苛电池有限公司		
Manufacturer	SHENZHEN PKCELL BATTERY CO.,LTD		
制造商地址	深圳市龙华区民塘路328号鸿荣源北站中心B座9层		
Manufacturer	9th Floor,Block B,Hongrongyuan North Station Center,No.328,Mintang		
Address	Road,Longhua District,Shenzhen,China.		
应急电话	13727580105		
Emergency Telephone	13727300103		
传真			
Fax			

第二部分-成分信息

Section 2- Composition Information

化学成分	CAS 号	重量含量(%)
Chemical Composition	CAS No.	Weight (%)
Nickelous hydroxide	12054-48-7	46.5
Nickel powder	7440-02-0	22.0
Со	7440-48-4	4.0
Mn	7439-96-5	5.0
Al	7429-90-5	2.0
Fe	7439-89-6	3.5
Polypropylene	9003-07-0	5.8

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Potassium hydroxide	1310-58-3	2.2	
water	14341-42-2	9.0	
	第三部分-危险性概述	2.2	
	Section 3- Hazards Iden	tification	
紧急情况概述 Emergency overview	不适用 N / A		
标签元素	IV/ A		
Label elements:			
危险标签图	不适用		
Hazard pictogram(s)	Not Applicable		
提示语	不适用		
Signal word	Not Applicable		
危险声明	不适用		
Hazard statement(s)	Not Applicable		
预防声明			
Precautionary statement(s			
预防	不适用		
Prevention	Not Applicable		
反应 Posnense	不适用		
Response 废弃处理	Not Applicable 不适用		
Disposal	Not Applicable		
环境危害	No relevant information		
Environmental hazards:	无相关信息		
重要症状	See section 11 for more inform	mation	
Important symptoms:	见第11部分更多信息		
, , ,	第四部分-急救措施		
	., ., ., ., ., ., ., ., ., ., ., ., ., .		
Section 4- First Aid Measures			
		洗至少15分钟,翻起上下眼睑,直到化学的残	
眼睛接触	留物消失为止, 迅速就医。		
Eye contact	Flush eyes with plenty of water for least 15 minutes, occasionally lifting the		
	upper and lower eyelids. Get		
.1. 11 15 61		15分钟,同时除去污染的衣物和鞋子,迅速就	
皮肤接触	医。		
Skin contact	Remove contaminated clothes and rinse skin with plenty of water or shower		
	for 15 minutes. Get medical a	ud. 如果呼吸困难给予输氧,立即就医。	
吸入		如未守效图准给了制氧,立印机医。 ove to fresh air immediately. Use oxygen if	
Inhalation	available.	ove to heart all littlinediately. Ose oxygen if	

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摄入 Ingestion

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unconscious. Call a physician.



饮用两杯牛奶或水,如果当事人仍然清醒可以采取催吐的方法,并且立即就医。

Give at least 2 glasses of milk or water. Induce vomiting unless patient is



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第五部分-消防措施		
Section 5- 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	碳氢表面活性剂, 二氧化碳	
Extinguishing Media	Hydrocarbon surfactant, 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, 氢氧化镍	
Hazardous Combustion Products	Carbon monoxide, carbon dioxide, Nickel Hydroxide.	

第六部分-泄露应急处理

Section 6- Accidental Release Measures

个人预防措施、保护设备和应急程序:

如果电池被泄露,让人员离开该区域直到烟雾消散。提供最大限度的通风,清除有害气体。首选的反应就是离开这个地区并消散气体,避免皮肤和眼睛接触或吸入气体。用吸收剂清除溢出的液体然后焚烧。如果电池泄漏发生时,液体可以用砂、泥土或其他惰性物质来吸收,污染区域应该保持通风。

Personal precautions, protective equipment and emergency procedures:

If the battery 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 and allow the vapors to dissipate, Avoid skin and eyes contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerated. If leakage of the battery happens, liquid could be absorbed by using sand, earth or other inert substance and contaminated area should be ventilated meantime.

环境预防措施:

不允许产品到达排水系统或任何水源。 如果渗透进排水系统或任何水源,通知相应的部门。

不允许进入下水道/表面或地下水。

Environment precautions:

Do not allow product to reach sewage system or any water source.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

抑制和清理材料的方法:

如果电池外壳被拆除,少量电解液可能会泄漏。收集所有材料放进一个塑料容器。根据当地的法律法规来处置,避免可溶物质进入大地、下水道或水源。

Methods and material for containment and cleaning up:

If battery casing is dismantled, small amounts of electrolyte may leak. Collect all released material in a plastic

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lined container. Dispose off according to the local law and rules, Avoid leached substances to get into the earth, canalization or waters.

第七部分-操作处置和储存			
第七部分一採作处直和循行 			
Sect	ion 7– 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。		
	禁止挤压或刺穿电池,或将电池浸入溶液中。		
操作处置	The battery should not be opened, destroyed or incinerate, since they may		
Handling	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.		
	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,或将电池长时间直接暴露在阳光中。		
储存	Avoid mechanical or electrical abuse. Storage preferably in cool, dry and		
Storage	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.		
	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。		
甘仙两分亲的除花拱旅	禁止短接或将电池正负极错误的安装在设备中。		
其他要注意的防范措施 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.		
	第八部分-接触控制和个体防护		
Section 8- Exposure Controls/Personal Protection			
	设计局部排气通风或其它设计来控制粉尘、雾、烟雾和气体。		
设计控制 Engineering Controls	Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor.		
Linging Controls	Keep away from heat and open flame. Store in a cool, dry place.		
	呼吸防护:在正常情况下不需要。		
个人防护装备	皮肤和身体防护:在正常情况下不需要,如果处理一个裂开的或泄漏的电池需		
Personal Protective Equipment	要穿戴适当的防护服和手套。		

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	手保护:如果处理一个裂开的或泄漏的电池需要戴适当手套。
	眼睛保护:在正常情况下不需要,如果处理一个裂开的或泄漏的电池需要戴上
	安全眼镜。
	Respiratory Protection: Not necessary under normal conditions.
	Skin and body Protection: Not necessary under normal conditions, Wear
	suitable protective clothing and gloves if handling an open or leaking battery.
	Hand protection: Wear suitable gloves if handling an open or leaking battery.
	Eye Protection: Not necessary under normal conditions, Wear safety
	glasses if handling an open or leaking battery.
11. (2.42.12.31.44	在工作区域应该有一个立即可以使用的安全淋浴和喷水洗眼器。
其它防护装备 Other Protective Equipment	Have a safety shower and eye wash fountain readily available in the
Other Flotective Equipment	immediate work area.
卫生措施	在工作区域不得进食,饮水或吸烟。
Hygiene Measures	Do not eat, drink, or smoke in work area. Maintain good housekeeping.
	第九部分-物理和化学特性
	第几部分─彻垤和化子特性
Section 9-	Physical and Chemical Properties
颜色	不适用
Color	Not Applicable
气味	不适用
Odour	Not Applicable
酸碱度	不适用
рН	Not Applicable
熔点/凝固点	不适用
Melting point/freezing point	Not Applicable
沸点、沸点范围:	不适用
Boiling Point and Boiling range	Not Applicable
易燃度	不适用
Flash Point	Not Applicable
自燃或爆炸的上、下极限	 不适用
Upper/lower flammability or	Not Applicable
explosive limits	
蒸汽压	不适用
Vapor Pressure	Not Applicable
蒸汽密度	不适用
Vapor Density	Not Applicable
Vapor Density	110t Applicable

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不适用

Not Applicable

相对密度

Relative density





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水溶性	不适用	
Solubility in Water	Not Applicable	
自燃温度	不适用	
Auto-ignition temperature	Not Applicable	
分解温度	不适用	
Decomposition temperature	Not Applicable	
蒸发速率	不适用	
Evaporation rate	Not Applicable	
易燃性(土壤、天然气)	不适用	
Flammability (soil, gas)	Not Applicable	
粘性	不适用	
Viscosity	Not Applicable	
	第十部分 稳定性和反应活性	
Secti	ion 10- Stability and reactivity	
稳定性	产品在第七部分所述的条件下稳定	
Stability	The product is stable under conditions described Section 7	
应避免的条件 Conditions to Avoid	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。 Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions.	
 	氧化剂,酸,碱。	
Incompatible Materials	Oxidizing agents, acid, base.	
危险分解物 Hazardous Decomposition Products	一氧化碳、二氧化碳、氧化锂烟雾。 Carbon monoxide, carbon dioxide, lithium oxide fumes.	
危险反应的可能性 Possibility of Hazardous Reaction	不适用 Not Applicable	
	第十一部分-毒理学资料	
Section 11 - Toxicological Information		
刺激 Irritation	如果电芯的外壳受到机械、热或电的滥用到达一定程度,会发生刺激的风险。如果发生这种情况,可能会刺激皮肤、眼睛和呼吸道。 Risk of irritation occurs only if the cell is mechanically, thermally or	
	electrically abused to the point of compromising the enclosure. If this occurs, irritation to the skin, eyes and respiratory tract may occur.	





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致过敏	不适用
Sensitization	Not Applicable
影响神经系统	不适用
Neurological Effects	Not Applicable
致畸	不适用
Teratogenicity	Not Applicable
再生毒性	不适用
Reproductive Toxicity	Not Applicable
诱变(遗传效应)	不适用
Mutagenicity (Genetic Effects)	Not Applicable
附带材料毒理性	不适用
Toxicologically Synergistic Materials	Not Applicable
Secti	on 12- Ecological Information
	不适用
Ecological Toxicity	Not Applicable
在土壤中的流动性	不适用
Mobility in soil	Not Applicable
持久性和分解性	不适用
Persistence and Degradability	Not Applicable
生物聚积	不适用
Bioaccumulation potential	Not Applicable
其他不利影响	不适用
Other Adverse Effects	Not Applicable
第十三部分-废弃处置	
Section 13- Disposal Considerations	
产品废弃处理建议 Product disposal recommendation	遵守当地、州和联邦法律和法规。 Observe local, state and federal laws and regulations.





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Packaging disposal recommendation

废弃处理必须根据当地法规

Disposal must be made according to official regulations

第十四部分-运输信息

Section 14 - Transport Information

运输标签	不适用	
Label for conveyance	N/A	
UN 编号	LINI 2400	
UN Number	UN 3496	
运输风险类别		
Transport hazard class(es)	9	
包装等级	不适用	
Packing group	N/A	
海洋污染物	无污染 No	
Marine pollutant		
联合国运输专用名称	镍氢电池	
UN Proper shipping name	Nickel-metal hydride batteries	

该货物应该被当做非限制性物品,需要满足IATA第65版本DRG手册中特殊规定A199和海运危险货物规则 (Amdt 41-22)的特殊规定963.

在空运或海运的货运单上应包含"Not Restricted"及特殊规定条款号。

运输方式: 空运, 海运, 铁路, 公路。

Transport information:

This goods shall be considered Not Restricted Goods and need to be complied with the requirements of special provision A199 of 65th DGR Manual of IATA or special provision 963 of IMDG CODE (Amdt 41-22).

The words "Not Restricted" and the Special Provision number must be included in the description of the substance on the Air or Sea Waybill.

Transport Fashion: By air, by sea, by railway, by road.

第十五部分 法规信息

Section 15- Regulatory information

法律信息

Law information

《危险物品规则》

《Dangerous Goods Regulations》





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《对危险货物运输的有关规定的建议》

《Recommendation 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》

《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)

《资源保护及恢复法案》

《Resource Conservation and Recovery Act》(RCRA)

《国际危险货物道路运输欧洲协定》

《European Agreement concerning the International Carriage of Dangerous》

《国际危险货物铁路运输欧洲协定》

«Regulations concerning the International Carriage of Dangerous»

根据所有联邦、州和地方法律。

In according with all Federal, State and local laws.

第十六部分-其它信息

Section 16- Other Information

上面的信息被认为是准确代表了目前最好的信息提供给我们。然而,飞机没有对商品性能保证或任何其他保证,包括明示或暗示,对这类信息的使用我们不承担责任。用户应作出自己的调查,以确定是否适合其特定用途的信息。虽然在此处所包含的数据的准备已经采取了合理的预防措施,这是仅为你提供的信息、考虑和调查。这个化学品安全技术说明书为本产品提供了安全操作指南和使用指南,它并不能对所有可能发生的情况提供建议,因此,您特殊使用该产品应先进行评估,以确定是否需要额外的预防措施。

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-- End of Report ---- 报告结束 --

