

安全技术说明书(MSDS)

Material Safety Data Sheet

报告编号:

Report No:

BCTC2211577939B

委托单位:

Applicant

Ningbo Veken New Energy Technology Co.,

Ltd.

产品名称:

锂离子电池组

Product Name:

Lithium-ion Battery Pack

宁波维科新能源科技有限公司

产品型号:

Product Type:

48V20Ah

签 发 时 间:

Issued Date:

2023-02-06

编

制:

Prepared By:

批

准:

Approved By:

Andre Yn

深圳市

检测有限公司

Shenzhen No.T.C. Testing Co., Ltd.



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传真

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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。

这份材料安全数据衣是根据各户提供的信息编辑,其内各种恰式按各户安水米修订。		
Section 1-Chemical Product and Company Identification		
第一部分-化学品及企业标识		
Product Name	Lithium-ion Battery Pack	
产品名称	锂离子电池组	
Model	48V20Ah	
型号	40 V 207 VII	
Trade Mark		
商标		
Ratings	20000mAh, 960Wh	
数定参数	2000011741, 0000011	
Weight	About 5157.8g	
重量	大约:5157.8g	
Manufacturer	Ningbo Veken New Energy Technology Co.,Ltd.	
制造商	宁波维科新能源科技有限公司	
Manufacturer	No.27, Weiwu Road, Veken Industrial Park, Xiaogang, Beilun District, Ningbo City,	
Address	Zhejiang Province	
制造商地址	浙江省宁波市北仑区小港维科工业园纬五路 27 号	
Emergency Telephone	+86-19957400667	
应急电话		
Fax		

Section 2- Composition Information 第二部分−成分信息			
Chemical Composition 化学成分	CAS No. CAS号	Weight (%) 含量(%)	Trade Secret 商业机密
Lithium cobaltate 钴酸锂	12190-79-3	41.0644%	*
Graphite 石墨	24937-79-9	0.5747%	*
Phosphate(1-), hexafluoro-, lithium 六氟磷酸锂	7429-90-5	5.3862%	
Copper 铜	7782-42-5	23.8046%	
Aluminium 铝	9004-32-4	0.4287%	
Nickel 镍	9003-55-8	1.1379%	

[&]quot;*" The exact percentage (concentration) of composition has been withheld as a trade secret. "*"准确的百分比(浓度)的构成已经作为商业机密。

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	Section 3- Hazards Identification	
第三部分-危险性概述		
Emergency overview: 紧急情况概述	N/A 不适用	
Classification according to GHS	Not a dangerous substance according to GHS 不属于GHS危险物品	
GHS分类 Label elements:		
标签元素		
Hazard pictogram(s) 危险标签图	No available 不适用	
Signal word 提示语	No available 不适用	
Hazard statement(s) 危险声明	No available 不适用	
Precautionary statement(s): 预防声明		
Prevention 预防	No available 不适用	
Response 反应	No available 不适用	
Disposal 处理	No available 不适用	
Environmental hazards: 环境危害	No relevant information 无相关信息	
Important symptoms: 重要症状	See section 11 for more information 见第11部分更多信息	
	Section 4- First Aid Measures	
	第四部分-急救措施	
Eye contact 眼睛接触	Flush eyes with plenty of water for least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. 万一接触,立即用大量的清水冲洗至少15分钟,翻起上下眼脸,直到化学的残留物消失为止,迅速就医。	
Skin contact 皮肤接触	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid. 万一接触,用大量的水冲洗至少15分钟,同时除去污染的衣物和鞋子,迅速就医。	
Inhalation 吸入	Remove from exposure and move to fresh air immediately. Use oxygen if available. 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。	
Ingestion 摄入	Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician. 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。	
S	ection 5- Fire Fighting Measures	
	第五部分-消防措施	
Flash Point 燃点	N/A 不适用	
Auto-Ignition Temperature 自燃温度	N/A 不适用	
Extinguishing Media 灭火介质	H ₂ O, CO ₂ 水,二氧化碳	

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Special Fire-Fighting Procedures 特殊灭火程序	Self-contained breathing apparatus 自给式呼吸器
Unusual Fire and Explosion Hazards 异常火灾或爆炸	Cell may vent when subjected to excessive heat-exposing battery contents 当电芯暴露于过热的环境中时,安全阀可能会打开
Hazardous Combustion Products 燃烧产生的危险物品	Carbon monoxide, carbon dioxide, lithium oxide fumes. 一氧化碳,二氧化碳,锂氧化物烟气

Section 6- Accidental Release Measures

第六部分-泄露应急处理

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.

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。

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.

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。

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

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。

可怕勿灰丝八八地、「小鱼以小狮		
Section 7- Handling and Storage		
第七部分-操作处置和储存		
Handling 操作处置	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. 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。	

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Storage 储存	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. 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。		
Other Precautions 其他要注意的防范措施	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. 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。		
Section 8-	Exposure Controls/Personal Protection		
	第八部分-接触控制和个体防护		
Engineering Controls 设计控制	Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor. Keep away from heat and open flame. Store in a cool, dry place. 设计局部排气通风或其它设计来控制粉尘、雾、烟雾和气体。		
Personal Protective Equipment 个人防护装备	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. 呼吸防护:在正常情况下不需要。 皮肤和身体防护:在正常情况下不需要。 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要穿戴适当的防护服和手套。 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。		
Other Protective Equipment 其它防护装备	Have a safety shower and eye wash fountain readily available in the immediate work area. 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。		
Hygiene Measures 卫生措施	Do not eat, drink, or smoke in work area. Maintain good housekeeping. 在工作区域不得进食,饮水或吸烟。		
Section	9- Physical and Chemical Properties		
Form 形态	第九部分-物理和化学特性 Solid □(4)		
Color 颜色	Black 黑色		
Odour 气味 pH	No available 不适用 No available		
pH 酸碱度	No available 不适用		
Melting point/freezing point 熔点/凝固点	No available 不适用		
Boiling Point and Boiling range 沸点、沸点范围:	No available 不适用		

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Flash Point	No available
易燃度	不适用
Upper/lower flammability or explosive limits	No available
自燃或爆炸的上、下极限	不适用
Vapor Pressure	No available
蒸汽压	不适用
Vapor Density	No available
蒸汽密度	不适用
Relative density	No available
相对密度	不适用
Solubility in Water	No available
水溶性	不适用
Auto-ignition temperature	No available
自燃温度	不适用
Decomposition temperature	No available
分解温度 Evaporation rate	不适用 No available
蒸发速率	No available
無及処平 Flammability (soil, gas)	No available
易燃性(土壤、天然气)	不适用
Viscosity	No available
粘性	不适用
S	ection 10- Stability and reactivity
	第十部分 稳定性和反应活性
Stability	The product is stable under conditions described Section 7
稳定性	产品在第七部分所诉的条件下稳定
	Heat above 70℃ or incinerate. Deform, Mutilate, Crush, Disassemble,
Conditions to Avoid	Overcharge, Short circuit, Expose over a long period to humid conditions.
应避免的条件	加热 70℃ 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。
Incompatible Materials	Oxidizing agents, acid, base.
不兼容的材料	氧化剂,酸,碱。
	手(アロバリ・ HX
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.
危险分解物	一氧化碳、二氧化碳、氧化锂烟雾。
Possibility of Hazardous	Net Aveileble N N N N N N N N N N N N N N N N N N N
Reaction	Not Available
危险反应的可能性	不适用
Sec	tion 11 – Toxicological Information
	第十一部分-毒理学资料
	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

Irritation 刺激		compromising the enclosure. If this occurs, irritation to the atory tract may occur.
		几械、热或电的滥用到达一定程度,会发生刺激的风险。如 它会刺激皮肤、眼睛和呼吸道。
Sensitization 致过敏	Not Available 不适用	
Neurological Effects 影响神经系统	Not Available	

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	不适用	
Teratogenicity	Not Available	
致畸	不适用	
Reproductive Toxicity	Not Available	
再生毒性	不适用	
Mutagenicity (Genetic Effects)	Not Available	
诱变(遗传效应)	不适用	
Toxicologically Synergistic	Not Available	
Materials	不适用	
附带材料毒理性		
Se	ction 12- Ecological Information	
	第十二部分-生态学资料	
Ecological Toxicity	Not Available	
生态毒性	不适用	
Mobility in soil	Not Available	
在土壤中的流动性	不适用	
Persistence and Degradability	Not Available	
持久性和分解性	不适用	
Bioaccumulation potential	Not Available	
生物聚积	不适用	
Other Adverse Effects	Not Available	
其他不利影响	不适用	
Sec	tion 13- Disposal Considerations	
	第十三部分-废弃处置	
Product disposal	Observe local, state and federal laws and regulations.	
recommendation	遵守当地、州和联邦法律和法规。	
产品废弃处理建议 Packaging disposal		
recommendation	Disposal must be made according to official regulations	
包装处理建议	废弃处理必须根据当地法规	
Se	ction 14 – Transport Information	
	第十四部分-运输信息	
UN Number		
UN编号	UN3480	
UN Proper shipping name	PI 965 Lithium ion Batteries (Including lithium ion polymer batteries)	
联合国运输专用名称	1 1 000 Elamant fort Datteries (infoldating littlight fort polymer Datteries)	

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Transport information:

Sample: Lithium-ion Battery Pack (Model: 48V20Ah) are tested and has passed in accordance with UN38.3.

The goods shall be complied with the requirements of Section IA of Packing Instruction 965 of 64rd DGR Manual of IATA or of IMDG CODE (Amdt. 40-20)

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport, ensure that the goods will not falling, dropping, and breakage, Prevent collapse of cargo piles and wet by rain.

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

样品: 锂离子电池组(型号: 48V20Ah)已通过UN38.3 测试。

货物应遵守IATA第64版DGR手册包装说明965第IA节规定的货物规则(Amdt. 40-20)的要求。

单独的锂离子电池在运输中应防止短路。他们应该在运输期间用坚固的包装来固定,确保货物不会倾斜,掉落和破损,防止货物倒塌和被雨水浸湿。

运输方式: 空运, 海运, 铁路, 公路。

Section 15- Regulatory information

第十五部分 法规信息

Law information

法律信息

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

In according with all Federal, State and local laws.

根据所有联邦、州和地方法律。

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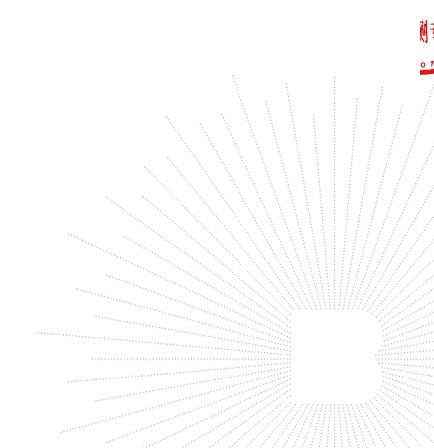


Section 16- Other Information 第十六部分-其它信息

The information above is believed to be accurate and represents the best information currently available to us. However, concorde makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

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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声 明

STATEMENT

1. 本次检测所用的测量设备的量值均可以溯源到国家计量标准。

The equipment lists are traceable to the national reference standards.

2. 检测报告未经本实验室书面批准,不得部分复制。

The test report can not be partially copied unless prior written approval is issued from our lab.

3. 检测报告未加盖"检测检测专用章"无效。

The test report is invalid without the "special seal for inspection and testing".

4. 检测报告无批准人员签字无效。

The test report is invalid without the signature of the approver.

5. 本次检测的结果仅对所检测样品有效。

The test process and test result is only related to the Unit Under Test.

6. 样品的相关信息由委托单位提供,实验室不对其真实性负责。

Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. 无 CMA 标志的检测报告,仅供科研、教学、企业产品研发及内部质量控制目的用。

The test report without CMA mark is only used for scientific research, teaching, enterprise product development and internal quality control purposes.

8. 本实验室的质量体系符合 ISO/IEC17025 标准的要求。

The quality system of our laboratory is in accordance with ISO/IEC17025.

9. 如对本检测报告有异议,可在收到检测报告后 15 天内向本单位申诉,逾期不予受理。

If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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