NTEK北测®



Report No./报告编号: P22126203701

Material Safety Data Sheet 材料安全数据表

Name of Goods: Rechargeable Lithium-ion Battery

物品名称: 可充电锂离子电池

Model and Spec .:

BT2-05 8000mAH29.6V 236.8Wh

型号规格:

Applicant: Wuxi Tonma Electric Vehicle Co., Ltd.

委托单位: 无锡通马电动汽车有限公司

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签发日期:

Shenzhen NTEK New Energy Technology Co., Ltd.

深圳市北测新能源技术有限公司

	化学品及企业标识		
Name of Products	Rechargeable Lithium-ion Battery		
产品名称	可充电锂离子电池		
Model/Type 켚号	BT2-05		
Ratings 额定参数	\ 9000mAH20 6V 236 9Wh		
Applican 委托单位	于提通卫中动海东方四八哥		
Address of Applica 委托单位地	江艾公子坦市亦二吸1101只4只採		
Manufactu 生产)			
Address of manufact 生产厂商	江北少工坦市方二四1101日4日採		
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Appr	roved by Jesse Zhang 批准人 张士杰 34+木 Seal-of N		

2. Hazards Identification

Dangerous classification	危险性概述
物品危险分类	
Explosive risk 爆炸危险性	This article does not belong to the
Flammable risk	This article does not belong to the explosion dangerous goods 该物品不属于爆炸危险品
易燃危险性	This article does not belong to the flammable material 该物品不属于易燃危险品
Oxidation risk	This article does not belong to the oxidation of dangerous goods 该物品不属于氧化危险品
Toxic risk 毒害危险性	This article does not belong to the
Radioactive risk	该物品不属于毒害危险品 This article doce and the toxic dangerous goods
放射危险性 Mordant risk	This article does not belong to the radiation of dangerous goods 该物品不属于放射危险品
腐蚀危险性	This article does not belong to the corrosion of dangerous goods 该物品不属于腐蚀危险品
Other risk 其他危险性	Lithium-ion batteries, The Watt-hour rating of the battery is 6.66Wh 锂离子电池,该电池额定瓦时为6.66Wh

3. COMPOSITION INFORMATION

Chemical Composition 化学成分	Chemical Formula	CAS No.	Weight (%) 重量百分比 5-8
Lithium nickel-cobalt-manganese	化学式	CAS号 N/A	
dioxide	N/A		
Lithium manganese oxide		IN/A	
Aluminum (AI)	Li ₂ MnO ₄	12057-17-9	27-33
	Al	7429-90-5	3-5
Graphite (C)	C ₂₄ X ₁₂	7782-42-5	
Nickel	Ni	7440-02-0	12-18
Copper (Cu)	Cu		0.2-0.5
Phosphate(1-), hexafluoro-, lithium	and the same of th	7440-50-8	6-8
	F ₆ LiP	21324-40-3	1.3-1.8
Organic solvent	N/A	N/A	10-11
N-(2-Phenoxybenzoyl)-N'-(p- tosyl)hydrazine	C ₂₀ H ₁₈ N ₂ O ₄ S	363179-62-8	15-17

4. First aid measures

急救措施

Once battery shell rupture, content contact with the human body will produce harm, once contact, should take the following emergency measures:

电池外壳破裂,内容物接触人体会产生危害,一旦发生接触,应采取以下应急措施:

Eye:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

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。

Skin:

Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. 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。

Inhalation: Remove from exposure and move to fresh air immediately. Use oxygen if available.

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。

Ingestion: Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician

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。

5. Fire-fighting measures

消防措施

Flash Point: N/A.

燃点: 不适用

Auto-Ignition Temperature: N/A.

自燃温度: 不适用

Extinguishing Media: Water, CO2.

灭火介质: 大量水 (降温), 二氧化碳

Special Fire-Fighting Procedures: Self-contained breathing apparatus.

特殊灭火程序: 自给式呼吸器

Unusual Fire and Explosion Hazards: Cell may vent when subjected to excessive heat-exposing battery contents.

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。

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

燃烧产生的危险物品:一氧化碳,二氧化碳,锂氧化物烟气。



6. Accidental release measures

泄露应急处理

) be Taken in case Material is Released or Spilled

ne battery material is released, remove personnel from area until fumes dissipate. Provide um ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag it into a steel can. The preferred response is to leave the area and allow the battery to cool and is to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Ove spilled liquid with absorbent and incinerate.

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。 k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 害气体。

aste 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.

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。

7. Handling and storage

操作处置和储存

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。禁止挤压刺穿电池或将电池浸入溶液中。

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.

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、通风等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。

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.

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。

8. Exposure controls/personal protection

接触控制个人防护

y Protection: In case of battery venting, provide as much ventilation as possible. Avoid reas with venting cell cores. Respiratory Protection is not necessary under conditions of normal

: 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常操作条件下,呼吸保护是不必要的。

ion: Not necessary under conditions of normal use.

牛: 正常使用条件下不需要。

tive Gloves: Not necessary under conditions of normal use.

套: 正常使用条件下不需要。

r Protective Clothing or Equipment: Not necessary under conditions of normal use.

防护服装或设备:正常使用条件下不需要。

sonal Protection is recommended for venting battery: Respiratory Protection, Protective Gloves, tective Clothing and safety glass with side shields.

也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。

9. Physical and chemical properties

物理和化学特性

Appearance: rectangle

外形: 矩形

Odors: If leaking, smells of medical ether.

气味: 泄漏时,有醚的气味。

PH: Not applicable as supplied.

酸碱度: 不适用

Flash Point: Not applicable unless individual components exposed.

燃点:除单个电芯暴露试验外其他不适用。

Flammability: Not applicable unless individual components exposed.

可燃性:除单个电芯暴露试验外其他不适用。

Relative density: Not applicable unless individual components exposed.

相对密度:除单个电芯暴露试验外其他不适用。

Solubility (water): Not applicable unless individual components exposed.

溶解性(水溶性):除单个电芯暴露试验外其他不适用。

Solubility (other): Not applicable unless individual components exposed.

溶解性(其他):除单个电芯暴露试验外其他不适用。

10. Stability and reactivity

稳定性和反应活性

Product is stable under conditions described in Section 7.

产品在第7节所述的条件下稳定。

Ins to Avoid: Heat above 70°C or incinerate. Deform. Mutilate. Crush. Disassemble. Overcharge. cuit. Expose over a long period to humid conditions.

有条件: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

ials to avoid: Oxidising agents, alkalis, water.

免的材料: 氧化剂, 碱, 水。

irdous Decomposition Products: Toxic Fumes, and may form peroxides.

分解物:有毒烟雾,并可能形成过氧化物。

cardous Polymerization: N/A.

合危害: 不适用

eaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalies, halogenated drocarbons.

1果发生泄露, 避免与强氧化剂, 无机酸, 强碱, 卤代烃接触。

11. Toxicological information

毒理学资料

Signs & symptoms: None, unless battery ruptures.

标志及症状: 无,除非电池破裂。

In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.

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。

Inhalation: Lung irritant.

吸入:对肺有刺激性。
Skin contact: Skin irritant.
皮肤接触:对皮肤刺激性。
Eye contact: Eye irritant.

眼睛接触: 对眼睛有刺激性。

Ingestion: Poisoning if swallowed.

食入: 吞下中毒。

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 bidneys

下列情况下健康状况会恶化:万一发生与电池内部材料接触的事故,轻微或严重的刺激,都可能使皮肤出现干燥和灼烧的感觉,并且损坏靶器官(肝脏,肾脏)的神经。

12. Ecological information

生态学资料

1 effects: None known at present.

的影响:目前未知。

ity: None known at present.

:目前未知。

mulation potential: Slowly Bio-degradable.

1积累:慢慢地生物降解。

nmental fate: None known environmental hazards at present.

害:目前没有已知的环境危害。

13. Disposal consideration

废弃处置

not incinerate, or subject cells to temperature in excess of 70°C, Such abuse can result in loss of seal tage, and/or cell explosion. Dispose of in accordance with appropriate local regulations.

e焚烧,或使电池温度超过 70°C,这种滥用可导致泄漏和/或电池爆炸。按照相应的地方性法规处理。

14. Transport information

运输信息

N No. and Shipping name:

JN 3480 Lithium ion batteries

JN 3481 Lithium ion batteries packed with equipment

UN 3481 Lithium ion batteries contained in equipment

UN编号及运输专有名称:

UN 3480 Lithium ion batteries

UN 3481 Lithium ion batteries packed with equipment

UN 3481 Lithium ion batteries contained in equipment

Label for conveyance: Lithium Battery Mark, class 9 lithium battery hazard label (Only for UN3480), Cargo Aircraft Only Label (Only for UN3480)

运输标签:锂电池标记,第 9 类锂电池危险品标签(只适用UN3480),仅限货机标签(只适用UN3480)

Packaging Groupl包装等级: N/A/不适用

EmS No./EmS 编号: F-A, S-I

Marine pollutants/海洋污染物: No/否

ICAOIIATA	Shipped by air in accordance with International Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA), DRG Packing Instructions PI 965 IA/IB, PI 966 II, PI 967 II 根据国际民用航空组织(ICAO), TI或者国际航空协会(IATA), DGR包装说明PI 965 IA/IB, PI 966 II, PI 967 II 相关规定进行空运	DGR 65 th (2024) ICAO (2023-2024 edition)
IMDG CODE	Shipped by sea in accordance with International Maritime Dangerous Code (IMDG CODE) Special Provision 188 根据《国际海运危险货物规则》(IMDG CODE)特殊规定188条款相关规定运输	IMDG CODE (Amdt. 40-20)

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15. Regulation information

法规信息

mation 法律信息

ous Goods Regulations)

规则》

mmendations on the Transport of Dangerous Goods Model Regulations》

危险货物运输的建议书 规章范本》

national Maritime Dangerous Goods Code》

示海运危险货物规则》

chnical Instructions for the Safe Transport of Dangerous Goods》

险品安全运输技术指令》

16. Other Information

其他信息

This file is only effective to the batteries (18650 1800mAh) provided by commissioner (Jiangxi Canhui ew Energy Science And Technology Co., Ltd) which manufactured by Jiangxi Canhui New Energy science And Technology Co., Ltd. The commissioner provides the composition information of batteries, and promises its integrity and accuracy. Users should read this file carefully, and use the batteries in correct method. Shenzhen NTEK New Energy Technology Co., Ltd. doesn't assume responsibility for any damage or loss because of misuse of batteries.

本文件仅对由委托方(江西省灿辉新能源科技有限公司)提供的,并由江西省灿辉新能源科技有限公司生产的电池(18650 1800mAh)有效。该电池的成分信息由委托方提供并承诺其完整性和准确性。用户应仔细阅读此文件,并按照正确的方法使用电池,如因电池使用不当造成的损害或损失,深圳市北测新能源技术有限公司不承担任何责任。

--End of Material Safety Data Sheet 材料安全数据表结束-

Important Notice

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- 5. Objections to the test report must be submitted to NTEK within 15 days. 对报告书若有异议,应于收到报告之日起15天内向本公司提出。
- 6. The Chinese contents in this report are only for reference.

本报告中的中文内容仅供参考。

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