

# Greenway 广东博力威科技股份有限公司 **Guangdong Greenway Technology Co.,Ltd.**

# **Material Safety Data Sheet**

## 材料安全数据表

## **Section 1: Chemical Product and Company Identification**

## 第一部分:产品名称及企业标识

Product Name	Rechargeable Li-ion Battery	
产品名称	可充电锂离子电池	
Type/Model	HB7-2450mAh-7.2	
产品型号	11D7-2430HIAH-7.2	
Nominal Voltage	7.2 V	
额定电压	T.Z V	
	0.041 (40.7044)	
Nominal Capacity 额定容量	2.6Ah (18.72Wh)	
Manufacturer	Guangdong Greenway Technology Co.,Ltd.	
生产厂家	广东博力威科技股份有限公司	
Manufacturer Address 生产厂家地址	Tongsha New Industry Park, Dongcheng Street,Dongguan	
	City ,Guangdong Province,P.R.China	
	东莞市东城街道同沙新工业园 UN "Recommendations on the TRANSPORT OF DANGEROUS	
Inspection according to 鉴定依据	GOODS"	
	联合国《关于危险品货物运输的建议书》	
Emergency telephone call 紧急联系电话	+86 0769-27282088	
	+00 0703-27202000	
Receiving date 接样日期	0000 44 40	
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## Section 2: Composition/Information on Ingredients

第二部分:成分/组成信息

Hazardous Ingredients/ 成分信息	Content /含量(%)	CAS Number / CAS 号码
锂镍氧化物 Lithium Nickel Oxide	25-35	12325-84-7
石墨 Graphite	20-30	7782-42-5
铁 Iron	10-20	7439-89-6
铜箔 Copper Foil	5-15	7440-50-8
钴酸锂 Cobalt lithium Dioxide	1-5	12190-79-3
丙酸甲酯 Methyl Propanoate	1-5	554-12-1
铝 Aluminium	1-5	7429-90-5
六氟磷酸锂 Lithium hexafluorophosphate	1-3	21324-40-3

#### SECTION 3 - HAZARDS IDENTIFICATION / EMERGENCY OVERVIEW

## 第三部分: 危害识别/危险情况概述

Nonflammable Solid 不易燃固体		
Inhalation 吸入	Product is not respirable. 非吸入性产品	
Ingestion 食入	Product cannot be ingested. 产品不可食用	
Skin Contact 皮肤接触	No adverse effects expected 无不良影响	
Eye Contact 眼睛接触	No adverse effects expected .Product will not directly contact the eyes. 无不良影响,产品不会直接接触眼睛	

The lithium ion batteries are not hazardous when used according to the instructions of manufacturer under normal conditions. In case of abuse, there's a risk of explode, rupture, fire, heat, leakage of internal



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components, which could cause casualty loss. Abuses include but not limited to the following cases: charge for a long time, short circuit, put into fire, whack with hard object, puncture with acute object, crush, break.

正常情况下,按照生产商提供的使用说明来使用,是不会有危险的。在滥用的情况下,可能会有内部物 质泄漏、发热、着火、外壳开裂等情况发生造成人身伤害和财产损失。滥用 情况包括但不限于以下情况:长时 间充电、短路、放入火中、用硬物敲击、用尖锐的物体刺 穿、挤压、弯曲折断等。

#### **SECTION 4 – FIRST AID MEASURES**

#### 第四部分: 急救措施

Inhalation 吸入	Make the victim blow his/her nose, gargle. Seek medical attention if necessary.  必要时就医
Ingestion 食入	No first aid needed. 不需要急救
Skin Contact 皮肤接触	Remove contaminated clothes and shoes immediately. Immediately wash extraneous matter or contact region with soap and plenty of water. 立即脫去汙染的衣服和鞋子,及大量清水、肥皂沖洗接触区域
Eye Contact 眼睛接触	Do not rub eyes. Immediately flush eyes with water continuously for at least 15 minutes. Seek medical attention.不要揉眼睛,立即用清水沖洗眼睛,至少持续 15 分钟,并送医

#### **SECTION 5 – FIRST FIGHTING MEASURES**

#### 第五部分:消防措施

Extinguish with plenty of water, dry powder extinguishers, sands, earth. Combustion products and decomposed products by contact of water or air with internal substance include: carbon monoxide, carbon dioxide, hydrogen fluoride, phosphorus fluoride.

可用大量的水、干粉灭火器、砂子、土等灭火。燃烧产物和内部物质与空气和水接触的

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生成物包括: CO、CO2、HF、氟氧化磷等。

#### Section 6: Accidental Release Measures

#### 第六部分: 泄露应急处理

When leakage of batteries happens, liquid could be absorbed with sands, earth or other inert substance, and the contaminated area should be ventilated meantime.

电芯/电池内部物质泄漏后,用砂子、土或其他惰性物质吸收,并及时通风。

#### **Section 7: Handling and Storage**

#### 第七部分:操作处置及储存

Don't handle and store batteries with metalwork. Store and use far away from heat, sparks,open flame, or any other ignition source, and under room temperature (<30°C) in ventilating and dehumidifying environments.

在操作和存放时不要使用金属器件和容器。电芯在常温下(<30℃)放置,通风除湿, 远离火源和热源。

## **Section 8: Exposure Controls/Personal Protection**

#### 第八部分:接触控制与个体防护

There is no need for protect under normal condition. In engineering aspect, ventilation equipment should be installed. Gas mask, blinkers, gloves enduring chemical erosion and exposure suit are required when dealing with fire and leakage.

正常的情况下,个人不需要防护。在工程方面,需要有抽气通风设备。如有着火和内部 物质泄漏,在处理时需要戴防毒面具、护目镜、耐化学腐蚀的手套和穿防护服装。

## **Section 9: Physical and Chemical Properties**

第九部分: 理化特性

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Batteries are not single chemical material; there are no specific physical and chemical properties such as melting point and boiling point.

电芯/电池不是一种单一的化学品,没有特定的理化性能如熔沸点等。

#### Section 10: Stability and Reactivity

#### 第十部分:稳定性和反应性

Batteries are safe under normal conditions. The following substance might appear after catching fire or leakage: organic carbonate, hydrogen fluoride, carbon monoxide, carbon dioxide, phosphorus fluoride.

在正常的情况下, 电芯/电池是安全的。

电芯/电池着火或者内部物质泄漏后,可能出现的物质有:有机碳酸酯、氟化氢、CO、CO2、氟氧化磷 等。

### **Section 11: Toxicological Information**

#### 第十一部分: 毒理学资料

Batteries are not hazardous when used properly. If the batteries catch fire or the internal substance leaks, combustion products and decomposed products might have irritation and toxicity to skin, eye and respiratory systems. Toxicity data of some substance are listed following:

正常使用时,电芯/电池没有毒性。电芯/电池着火或者内部物质泄漏后,燃烧产物、其 内部各组分及其与 水份接触后的分解产物对人体皮肤、眼睛和呼吸系统有一定的刺激性和毒 性。此处列举部分物质的毒理学数据。 Hydrogen fluoride:氟化氢

Extremely toxic. May be fatal if inhaled or ingested. Readily absorbed through the skin contact may be fatal. Possible mutagen.LCLo: 50 ppm/30m (human beings), LC50: 1276 ppm/1h (rats) .

较大的毒性。吸入或食入可致命,可通过皮肤吸收,可诱导突变。LCLo: 50 ppm/30m (人), LC50: 1276 ppm/1h (小白鼠)。

Carbon and graphite:碳和石墨

Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation. Causes chronic damage to upper respiratory tract and cardiovascular system.

皮肤接触有刺激性,吸入和食入有轻微的危害,对上呼吸道和心血管系统有慢性损害。

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Copper: Dust may cause respiratory irritation.LD50: 3.5 mg kg-1(mouse).

铜:粉尘对呼吸系统有刺激。小白鼠 LD50: 3.5 mg kg-1。

Aluminium: There is no hazard. 铝:没有毒性。

**Section 12: Ecological Information** 

第十二部分: 生态学资料

There is no influence to ecology and environment when used properly.

正常使用时, 电芯/电池不会有生态和环境方面的影响。

**Section 13: Disposal** 

第十三部分: 废弃处理

Deserted batteries couldn't be treated as ordinary trash. Be put to garbage box which recycle batteries after being placed into plastic bags or be dealt as special trash. Couldn't be thrown into fire or placed in high temperature. Couldn't be dissected, pierced, crushed or treated similarly. The package and plastic box which contain batteries could be treated as ordinary trash. Best way is recycling.

废弃电芯不能直接当作普通垃圾处理,用塑料袋装好密封放入回收电池的垃圾桶或当作 特殊垃圾处理。废 弃电芯不能丢进火中和置于高温环境,不要拆卸,同时不能刺穿和挤压等

等。电芯的包装纸盒和塑料盒可作为普通垃圾处理。

**Section 14: Transport Information** 

第十四部分:运输信息

运输标签: 第九类危险品标识, 仅限货机运输标识, 唛头

Label for conveyance: the Class 9 Lithium Battery hazard label, the Cargo aircraft Only Label, the

shipping mark.

UN编号:: UN3480 或 UN3481 UN Number: UN3480 or UN3481

包装等级: 不适用 Packing Group: N/A EmS编号: F-A, S-I

EmS No: F-A, S-I

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海洋污染物:无 Marine pollutant: No

正确的装运名称: 1) 锂离子电池; 2) 锂离子电池伴随设备包装在一起; 3) 锂离子电池装在设备中(包括锂离子聚 合物电池)

Proper Shipping name: 1) Lithium ion batteries; 2) Lithium ion batteries packed with equipment; 3) Lithium ion batteries contained in equipment. (including Lithium ion polymer batteries)

危险分类:货物应遵守IATA 第63版DGR手册包装说明965~967第Ⅱ(或者IB节)规定(2022年版),和特殊规定 188海运危险货物规则(Amdt 40-20)2020版,包括通过UN38.3测试手册要求。

Hazard Classification: The goods shall be complied with the requirements of Section II (or Section IB) of Packing Instructions 965~967 of 63rd DGR Manual of IATA (2022 Edition) and Special Provision188 of IMDG CODE (Amdt. 40-20) 2020 Edition, including the passing of the UN38.3 test.

#### **Section 15: Regulatory Information**

第十五部分: 法规信息

#### Law information

《危险物品规则》

《Dangerous Goods Regulations》

《对危险货物运输的有关规定的建议》

《Recommendations 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》

《职业安全卫生法》

《Occupational Safety and Health Act》 (OSHA)

《有毒物质控制法》

《Toxic Substance Control Act》(TSCA)

《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)

《石油污染法案》

《The Oil Pollution Act》 (OPA)

《超级基金修正案和再授权法案III(302/311/312/313)》

《Superfund Amendments and Reauthorization Act Title III (302/311/312/313)》 (SARA)

《资源保护及恢复法案》

《Resource Conservation and Recovery Act》(RCRA)

《安全饮用水法》

《Safety Drinking Water Act》(CWA)

《加州65提案》

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《美国联邦法规》

《Code of Federal Regulations》(CFR)

根据所有联邦、州和地方法律。

In accordance with all Federal, State and local laws.

**Section 16: Other Information** 

第十六部分: 其他信息

This information is not effective to all the batteries manufactured by GW. This information comes from reliable sources, but no warranty is made to the completeness and accuracy of information contained. GW doesn't assume responsibility for any damage or loss because of misuse of batteries. Users should grasp the correct use method and be responsible for the use of batteries.

本 MSDS 中的信息不对博力威生产的所有电池有效。本文信息来源可靠,但博力威不保证来源描述的完整 性、精确性等。使用者须掌握正确使用电池的方法并对电池的使用负责,博力威公司对由于电池的滥用而造成的伤 害和损失不承担责任。

Prepared: Xing Li

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