

国家危险化学品检测重点实验室(浙江)

电话 (Tel): 0571 8352 7220 传真 (Fax): 0571 8352 7219 邮编 (Post code): 311215

地址 (Add.): 中国杭州市萧山区建设三路 398 号

正本/ORIGIN

编号: TCH21013994 No: TCH21013994 日期: 2022-05-30 Date: 2022-05-30

ZAIQ-RF(HH)-01-19

Safety Data Sheet



Applicant name: Jinhua Hongbang New Energy Technology CO., LTD.

Product Name: Lithium ion battery pack 36V10AH/360Wh

Edit date: 2022-05-30

Edit institution: Technology Center of Hangzhou Customs District

Approver: 7 12 3

1. Unless other wise stated, this test report is only responsible for the sample(s).

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声明

DECLARATION

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测)。复测以原样为准,复测维持原结论时,由申请方承担复测费。

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4.本报告各页均为报告不可分割部分,使用者部分使用检测报告而导致误解或由此造成后果,本 机构不承担任何责任。

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	1. Identification of substance	
Product Name		
Other Name	Lithium ion battery pack 36V10AH/360Wh None	
Chemical Name	None	
Recommended Use	Mounted on an electric scooter	
Manufacturer	Jinhua Hongbang New Energy Technology CO., LTD.	
Address	Second Floor, Building C, Shenzhou Mould City, No. 299,	
Addiess	Jiuzhou West Road, Dongcheng Street Economic Development	
	Zone, Yongkang City, Jinhua City, Zhejiang Province / 321300	
Phone Number	+86-159 5846 2395	
Fax Number	None	
WEB or E-mail	734515649@qq.com	
Emergency Phone	+86- 159 5846 2395 or Call your nearest poison control centre	
Number	, and the second control of the second contr	
	2. Hazards identification	
GHS classification	_	
GHS Pictograms	_	
Signal words	_	
Hazard statements	_	
Precautionary Statement	_	
Prevention		
Precautionary Statement	-	
Response		
Precautionary Statement	-	
Storage		
Precautionary Statement	-	
Disposal		
Other hazards which do	Not available.	
not result in classification		
	Composition/information on ingredients	
□Substances ✓Mixtures		
Component Information		
Component	CAS number EINECS number Mass(%)	
•••••		
4.First-aid measures		
NOTE TO DUVCTOTAN	In case of shortness of breath, give oxygen. Keep victim warm.	
NOTE TO PHYSICIAN	Keep victim under observation.	
After inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Get	
	immediate medical attention.	
After skin contact	In case of contact with substances in the battery, immediately	
l	flush skin thoroughly with soap and plenty of water. Remove	

After eye contact After ingestion	and isolate contaminated clothing and shoes. If irritation persists, get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse. In case of contact with substances in the battery, immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get medical attention immediately. Rinse mouth. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Loosen tight clothing such as a collar, tie, belt or waistband. Do not use mouth-to-mouth method if victim ingested the substance. Seek immediate medical attention.
Most important	No data available.
symptoms / effects,	
acute and delayed	
	5. Fire-fighting measures
Suitable extinguishing	Water (cooling), use dry chemical powder, sandy soil, foam and
agents	carbon dioxide. Heptafluoropropane and perfluorohexanone
C	have better extinguishing effects.
Special hazards caused	Cell may vent when subjected to excessive heat-exposing
by the material, its products of combustion	battery contents. Can be released in case of fire: carbon oxide, lithium oxide
or flue gases	fumes, irritating and toxic fumes and gases.
Protective equipment for	Wear full protective clothing, including helmet, self-contained
fire-fighters	positive pressure or pressure demand breathing apparatus,
	protective clothing and face mask.
	6. Accidental release measures
Person-related safety precautions	If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Avoid skin and eye contact or inhalation of vapors.
Measures for	Prevent further leakage or spillage if safe to do so. Do not allow
environmental protection	material to be released to the environment without proper governmental permits.
Measures for	If batteries show signs of leaking, avoid skin or eye contact with
cleaning/collecting	the material leaking from the battery. Use chemical resistant
	rubber gloves and non-flammable absorbent materials for clean up. Mix with inert material (e.g. dry sand, vermiculite) and transfer to sealed container for disposal.
Additional information	See Section 7 for information on safe handling
	See section 8 for information on personal protection
	equipment.
	See Section 13 for information on disposal.

According to GHS rev 8 7. Handling and storage Operators should be trained and strictly abide by the operating

Handling

Information for safe handling

procedures. It is recommended that operators wear general protective clothing and safety gloves. Keep away from fire, heat source and direct sunlight. Smoking is strictly prohibited in the workplace. Provide ventilation systems and equipment in the workplace. Such batteries must be packed in inner packages in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits. Avoid mechanical or electrical abuse. More than a momentary short circuit will generally reduce the battery service life. Avoid reversing battery polarity within the battery assembly. In case of a battery unintentionally be crushed, rubber gloves must be used to handle all battery components. Avoid contact with eyes, skin. Avoid inhalation. Store separately from strong oxidizing agents, corrosives.

Information about protection against explosions and fires Avoid mechanical and electrical abuse. Do not short circuit or install incorrectly.

Batteries may explode or cause burns if disassembled, crushed, recharged or exposed to high temperatures. Install batteries in accordance with equipment instructions.

STORAGE

Requirements to be met by storerooms and containers

Store in a cool and dry place, away from direct sunlight. 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.

Information about storage in one common storage facility

source and direct sunlight. Such batteries must be packed in inner packages in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits. Materials to Avoid: strong oxidizing agents, corrosives.

Store in a cool, well-ventilated area. Keep away from fire, heat

Further information about storage conditions The storage area shall be equipped with corresponding types and quantities of fire-fighting equipment, leakage emergency treatment equipment and appropriate materials.

8. Exposure controls/personal protection

Limit Values for Exposure

Component CAS **ACGIH** ACGIH NIOSH NIOSH **REL-TWA** number **TLV-TWA TLV-STEL REL-STEL**

Appropriate engineering controls	Use ventilation system and equipment. In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Provide safety shower and eye wash equipment.
General protective and hygienic measures	Not necessary under conditions of normal use. Personal protection is recommended for venting battery. No smoking, drinking and eating at working site. Wash thoroughly after handling.
Personal protective equipment	Personal protection is recommended for venting battery: respiratory protection, protective gloves, protective clothing and safety glass with side shields.
Breathing equipment	When workers are facing high concentrations they must use appropriate certified respirators. Respiratory protection is not necessary under conditions of normal use.
Protection of hands	Not necessary under conditions of normal use.
Eye/Face protection	Use safety glasses with side shields or safety goggles as mechanical barrier for prolonged exposure.
Body protection	Full set of anti chemical reagent overalls, flame retardant antistatic protective clothing, choose body protection according to the amount and concentration of the dangerous substance at the work place.
Note: 1. N.E. means not established.	

9.Physical and chemical properties		
Physical state	Lithium ion battery pack, green prismatic	
Colour	No data available	
Odour	Odourless	
Melting point/freezing point	No data available	
Boiling point or initial boiling point and boiling range	No data available	
Flammability	No data available	
Lower and upper explosion limit/ flammability limit	No data available	
Flash point	No data available	
Auto-ignition temperature	No data available	
Decomposition temperature	No data available	
pH	No data available	
Kinematic viscosity	No data available	
Solubility	No data available	
Partition coefficient:	No data available	

n-octanol/water(log	
value)	
Vapour pressure	No data available
Density and/or relative	No data available
density	To data available
Relative vapour density	No data available
(air=1)	TVO data available
Particle characteristics	No data available
Turing characteristics	10. Stability and reactivity
Reactivity	No data available.
Chemical stability	This is a stable product under recommended storage
Chermed Stability	conditions.
Possibility of hazardous	No polymerization.
reactions	No polymenzacióm
Conditions to avoid (e.g.	Avoid exposure to heat and open flame. Avoid mechanical or
static discharge, shock or	electrical abuse. Prevent short circuits.
vibration)	Prevent movement which could lead to short circuits.
Vibraciony	Expose over a long period to humid conditions.
Incompatible materials	Strong oxidant, corrosives. If leaked, forbidden to contact with
Incompanie materiale	strong oxidising agents, mineral acids, strong alkalis, etc.
Hazardous	Metal oxides, carbon monoxide, carbon dioxide and other toxic
decomposition products	smoke and gas.
accomposition products	Silloke and gas.
	11.Toxicological information
Routes of Entry: Dermal of	11.Toxicological information
•	contact, eye contact, inhalation, ingestion.
Routes of Entry: Dermal of Acute Toxicity	contact, eye contact, inhalation, ingestion. LD50 (Oral, rat) N/A
•	contact, eye contact, inhalation, ingestion. LD50 (Oral, rat) N/A LC50 (Inhalation, rat) N/A
Acute Toxicity	contact, eye contact, inhalation, ingestion. LD50 (Oral, rat) N/A LC50 (Inhalation, rat) N/A LD50 (Dermal, rabbit) N/A
Acute Toxicity Skin corrosion/Irritation	contact, eye contact, inhalation, ingestion. LD50 (Oral, rat) N/A LC50 (Inhalation, rat) N/A LD50 (Dermal, rabbit) N/A The internal battery materials may cause skin irritation.
Acute Toxicity Skin corrosion/Irritation Serious eye	contact, eye contact, inhalation, ingestion. LD50 (Oral, rat) N/A LC50 (Inhalation, rat) N/A LD50 (Dermal, rabbit) N/A
Acute Toxicity Skin corrosion/Irritation Serious eye damage/irritation	contact, eye contact, inhalation, ingestion. LD50 (Oral, rat) N/A LC50 (Inhalation, rat) N/A LD50 (Dermal, rabbit) N/A The internal battery materials may cause skin irritation.
Acute Toxicity Skin corrosion/Irritation Serious eye damage/irritation Respiratory or skin	contact, eye contact, inhalation, ingestion. LD50 (Oral, rat) N/A LC50 (Inhalation, rat) N/A LD50 (Dermal, rabbit) N/A The internal battery materials may cause skin irritation. The internal battery materials may cause eye irritation.
Acute Toxicity Skin corrosion/Irritation Serious eye damage/irritation Respiratory or skin sensitization	contact, eye contact, inhalation, ingestion. LD50 (Oral, rat) N/A LC50 (Inhalation, rat) N/A LD50 (Dermal, rabbit) N/A The internal battery materials may cause skin irritation. The internal battery materials may cause eye irritation.
Acute Toxicity Skin corrosion/Irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	contact, eye contact, inhalation, ingestion. LD50 (Oral, rat) N/A LC50 (Inhalation, rat) N/A LD50 (Dermal, rabbit) N/A The internal battery materials may cause skin irritation. The internal battery materials may cause eye irritation. Not classified
Acute Toxicity Skin corrosion/Irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	contact, eye contact, inhalation, ingestion. LD50 (Oral, rat) N/A LC50 (Inhalation, rat) N/A LD50 (Dermal, rabbit) N/A The internal battery materials may cause skin irritation. The internal battery materials may cause eye irritation. Not classified Not classified
Acute Toxicity Skin corrosion/Irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	contact, eye contact, inhalation, ingestion. LD50 (Oral, rat) N/A LC50 (Inhalation, rat) N/A LD50 (Dermal, rabbit) N/A The internal battery materials may cause skin irritation. The internal battery materials may cause eye irritation. Not classified Not classified Not classified
Acute Toxicity Skin corrosion/Irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure	contact, eye contact, inhalation, ingestion. LD50 (Oral, rat) N/A LC50 (Inhalation, rat) N/A LD50 (Dermal, rabbit) N/A The internal battery materials may cause skin irritation. The internal battery materials may cause eye irritation. Not classified Not classified Not classified Not classified
Acute Toxicity Skin corrosion/Irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity	contact, eye contact, inhalation, ingestion. LD50 (Oral, rat) N/A LC50 (Inhalation, rat) N/A LD50 (Dermal, rabbit) N/A The internal battery materials may cause skin irritation. The internal battery materials may cause eye irritation. Not classified
Skin corrosion/Irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure	contact, eye contact, inhalation, ingestion. LD50 (Oral, rat) N/A LC50 (Inhalation, rat) N/A LD50 (Dermal, rabbit) N/A The internal battery materials may cause skin irritation. The internal battery materials may cause eye irritation. Not classified
Acute Toxicity Skin corrosion/Irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard	contact, eye contact, inhalation, ingestion. LD50 (Oral, rat) N/A LC50 (Inhalation, rat) N/A LD50 (Dermal, rabbit) N/A The internal battery materials may cause skin irritation. The internal battery materials may cause eye irritation. Not classified
Skin corrosion/Irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard Chronic Effects	contact, eye contact, inhalation, ingestion. LD50 (Oral, rat) N/A LC50 (Inhalation, rat) N/A LD50 (Dermal, rabbit) N/A The internal battery materials may cause skin irritation. The internal battery materials may cause eye irritation. Not classified
Skin corrosion/Irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard Chronic Effects	contact, eye contact, inhalation, ingestion. LD50 (Oral, rat) N/A LC50 (Inhalation, rat) N/A LD50 (Dermal, rabbit) N/A The internal battery materials may cause skin irritation. The internal battery materials may cause eye irritation. Not classified
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Ecotoxicity

Aquatic Toxicity Test & Species

96 Hr LC50 fish: N/A 48 Hr EC50 Daphnia: N/A

72 Hr EC50 Algae: N/A

Persistence and

Not available

degradability

Bioaccumulative Not available

potential

Mobility in soil Not available

Additional Information None

13. Disposal considerations

WASTE DISPOSAL INSTRUCTIONS

Contact a qualified professional waste disposal service to dispose of

this material.

Dispose of in accordance with local environmental regulations or local

authority requirements.

14. Transport information

The Recommendation of Transport of Dangerous Goods(TDG)

UN Number UN 3480

Proper Shipping Name LITHIUM ION BATTERIES

Class/Division Class 9 Miscellaneous Dangerous Substances and Articles

Package Group Subsidiary risk labeling pictogram



Note: This sample is a lithium-ion battery module with a watt rating greater than 100wh per hour, containing 10 strings of 5 parallel cells with a total of 50 cells, and passed the tests required by UN 38.3. Cells and batteries are equipped with effective means as necessary to prevent dangerous reverse current flow. Cells and batteries need to be equipped with effective devices for safety venting and protection against external short circuits, and have a high quality management scheme can be transported as mentioned above. Lithium cells and batteries must be packed in inner packaging that completely enclose the cell or battery and placed in a strong outer packaging. The completed package must meet the Packing Group II performance requirements.

Maritime transport

Being same with TDG/ No

IMDG/ Marine pollutant

EmS No.: F-A, S-I

(Yes/No)

According to 2.9.4.7 of IMDG Code (2018 Edition),

Manufacturers and subsequent distributors of cells or batteries manufactured shall make available the test summary as specified in the Manual of Tests and Criteria, Part III, sub-section 38.3, paragraph 38.3.5.

Air transport ICAO-TI and IATA-DGR

Being same with TDG

The product shall meet the General Requirements and section IA of Packaging Instruction 965. According to 3.9.2.6.1(g) of IATA DGR (62nd Edition), Manufacturers and subsequent distributors of cells or batteries manufactured after 30 June 2003 must make available the test summary as specified in the UN Manual of Tests and Criteria, Part III, sub-section 38.3, paragraph 38.3.5.

According to Special Provisions of IATA DGR (62nd Edition) A164 Any electrical battery or battery powered device, equipment or vehicle having the potential of a dangerous evolution of heat must be prepared for transport so as to prevent: (a) a short circuit (b) unintentional activation. A802 Notwithstanding the absence of a packing group in column E, substances and articles assigned to these entries must be packed in UN Specification packagings that meet packing group II performance standards. This does not apply when lithium batteries prepared in accordance with Section IB of Packing Instructions 965 or 968.

15. Regulatory information

European/International Regulations

OSHA: Hazardous by definition of Hazard Communication Standard

(29CFR 1910.1200).

EINECS Status: No data available.
EPA TSCA Status: No data available.
Canadian DSL/NDSL No data available.

(Domestic Substances List/ Non-domestic Substances List):

HMIS(Hazardous Health: 1

Material Identification Flammability: 0 **System Ratings):** Physical hazard: 0

Personal protection: F

(4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard; 1.

Slight Hazard; 0. Minimal Hazard)

WHMIS(Canadian Unknown.

Workplace Hazardous Material Identification System Ratings):

ICAO-TI 1. Unless be exempted according to ICAO TI, the lithium ion

cell/batteries (UN 3480, PI 965) and lithium metal cell/batteries (UN 3090, PI 968) are forbidden for carriage on passenger aircraft.

- 2. Unless be approved according to ICAO TI, Lithium ion cells/batteries (UN 3480, PI 965) must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity.
- 3. A shipper is not permitted to offer for transport more than one (1) package prepared according to Section II of PI 965 and PI 968 in any single consignment. Not more than one (1) package prepared in accordance with Section II of PI 965 and PI 968 may be placed into an overpack.
- 4. Packages prepared according to Section II of PI 965 and PI 968 must be offered to the operator separately from other cargo and must not be loaded into a unit load device (ULD) before being offered to the operator.

List of dangerous goods (GB 12268-2012) UN Number: UN3480, Shipping Name: LITHIUM ION

BATTERIES, Packing Group: II

Lithium cells and batteries listed in this report are of the types proven to meet the requirements of each applicable test in the UN Manual of Tests and Criteria, Part III, sub-section 38.3.

16. other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

This Material Safety Data Sheet was based on the "Globally Harmonized System of Classification and Labelling of Chemicals", "Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations", "INTERNATIONAL MARITIME DANGEROUS GOODS CODE"," International Air Transport Association Dangerous Goods Regulations", the National Standards and other related dangerous chemicals management laws, regulations and standards, which are periodically updated and changed. To make dangerous goods / hazardous chemicals comply with the relevant requirements of the latest management, regularly update is recommended.

This Material Safety Data Sheet has been compiled in both English and Chinese. For any discrepancies, the Chinese version shall prevail.

Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA-DGR: Dangerous Goods Regulations by the "International Air

Transport Association" (IATA)

ICAO-TI: Technical Instructions by the "International Civil Aviation

Organization" (ICAO)

EINECS: European Inventory of Existing Commercial Chemical

Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EC50: Effective concentration, 50 percent

Edit Date 30.05.2022 **Update and Revise** Original edition

Edit Standard

Globally Harmonized System of Classification and Labelling of

Chemicals Part 1.5

Revised Institution Technology Center of Hangzhou Customs District



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化学品安全数据表



申请单位:金华市洪邦新能源科技有限公司

产品名称: 锂离子电池组 36V10AH/360Wh

编制日期: 2022-05-30

编制机构: 杭州海关技术中心

批准人: 万时季

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1. 标识		
产品名称	锂离子电池组 36V10AH/360Wh	
英文名称	Lithium ion battery pack 36V10AH/360Wh	
其他名称	无	
化学名称	无	
使用建议	安装在电动滑板车上	
生产商	金华市洪邦新能源科技有限公司	
地址	浙江省金华市永康市东城街道经济开发区九州西路 299 号 C1 幢 2	
	楼洪邦锂电/321300	
固定电话	+86-159 5846 2395	
传真	无	
网址或电子邮件地址	734515649@qq.com	
应急电话	+86-159 5846 2395 或向离你最近的解毒中心求助	
	2. 危险标识	
GHS 危险性分类	_	
GHS 危险标签	_	
信号词	_	
危险说明	_	
防范说明	_	
预防		
防范说明	_	
反应		
防范说明	_	
贮存		
防范说明	_	
处置		
不导致分类的其他危险	未知。	
	3. 成分构成/成分信息	
□物质		
√混合物		
成分信息		
成分	CAS 号 EINECS 号 含量(%)	
		
•••••	4 Z. PL+H-25	
对医压的排泄	4.急救措施	
对医师的建议	在呼吸急促的情况下,需给受害人输氧。保持受害人温暖。	
m) 与	让受害人处于观察监护下。	
吸入后	转移到有新鲜空气的地方。如需要,须输氧或进行人工呼吸。马上就原	
中 开拉袖 C	就医。	
皮肤接触后	若接触到电池内的物质,立即用肥皂和大量清水彻底冲洗皮肤。脱粒被污染的充肥和数子。如皮肤刺激仍然结,须或医,如原果小两	
	掉被污染的衣服和鞋子。如皮肤刺激仍继续:须求医。如原是小面和的皮肤接触。除此接触面积的扩大。污染的衣服在使用蓝。须弟	
	积的皮肤接触,防止接触面积的扩大。污染的衣服在使用前,须单	
	独清洗。	

第 2 页 共 8 页 依据 GHS 第 8 修订版编写

眼睛接触后 若接触到电池内的物质,立即用大量的水冲洗眼睛至少 15 分钟。用

手指分开眼睑以保证充分冲洗眼睛。马上就医。

摄入后 漱口。无医师建议的情况下不要引吐。如果受害人需呕吐,使其前

倾以减少倒吸的危险。解松过紧的衣物,如领子、领带、皮带或腰

带。不要使用嘴对嘴的方法实施救助。马上就医。

主要的症状和影响,包括急 无数据资料。

性和迟发效应

_	251/12十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十
.b.	消防措施

合适的灭火剂 大量水(降温),可用干粉、砂土、泡沫和二氧化碳灭火。七氟丙

烷和全氟己酮灭火效果较好。

由物质本身或其燃烧产物、

当电芯暴露于过热的环境中时,安全阀可能会打开。

烟气产生的特殊危险

在发生火灾时可能释放:碳氧化物,锂氧化物烟气,刺激性有毒烟

雾和气体。

消防人员的特殊防护设备 穿全套防护衣物,包括头盔,自给正压式呼吸器,防护服和面罩。

6. 泄漏应急处理

与人相关的安全防范措施 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。避免皮肤和眼睛接触或吸入有害

气体。

环境保护措施 如能做到应防止进一步的泄露和溢出。无相关政府许可,不允许把

该物质释放到环境中。

清洁/收集措施 如果电池有泄漏迹象,避免皮肤或眼睛接触电池泄漏的材料。使用

耐化学腐蚀的橡胶手套和不易燃的吸收性材料进行清洁。与惰性材

料(如干沙,蛭石)混合并转移到密封的容器待处理。

附加说明 关于安全操作的信息见第7部分

关于个人防护设备的信息见第8部分

关于处置的信息见第 13 部分

7. 操作和存储

操作

安全操作的信息 操作人员应经过培训,严格遵守操作规程。建议操作人员穿一般作

业防护服,戴安全手套。远离火种、热源,避免阳光直射。工作场所严禁吸烟。工作场所应有通风系统和设备。避免随意拆卸电池和弄错正负极。须牢固在内包装中,以有效防止短路和防止可导致短路的移动。万一电池内的物质泄漏,避免眼睛、皮肤直接接触,避

免吸入。应与强氧化剂、腐蚀品分开存放。

防止爆炸和火灾的信息 避免机械和电气的滥用。不要短路或安装错误。

电池如果拆卸、压碎、充电或暴露在高温下,可能会发生爆炸和燃

烧。按照设备说明书安装电池。

存储

对储藏室和容器的要求 存储于阴凉干燥的地方,防止阳光直射。

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。

关于储藏在普通存储设施 储存于阴凉、通风的库房内。远离火种、热源,避免阳光直射。须

锂离子电池组 36V10AH/360Wh

依据 GHS 第8修订版编写

中的信息 牢固在内包装中,以有效防止短路和防止可导致短路的移动。应与

强氧化剂、腐蚀品分开存放。

关于储藏条件进一步的信 储存区配备相应品种和数量的消防器材、泄漏应急处理设备和合适

的收容材料。

8. 暴露控制/人身保护

暴露限值

成分 CAS 号 ACGIH ACGIH NIOSH 阈 NIOSH 阈

> 阈限值-时 间加权平 均浓度

阈限值-短 时间接触 限值

限值-时间加 权平均浓度

限值-短时 间接触限值

有通风系统和设备。当电池排气阀打开时,应尽量使通风设备开至 减少接触的工程控制方法

最大,避免将打开排气阀的电芯局限在某一狭窄空间内。提供安全

淋浴和洗眼设备。

一般保护和卫生措施 正常使用条件下不需要。电池开阀试验时应做好个人防护。工作场

所严禁吸烟、饮水和饮食。工作后,沐浴更衣。

电池开阀试验时应做好个人防护, 呼吸防护, 防护手套, 防护服和 个人防护用品

有护边的安全玻璃罩。

呼吸设备 当工人在高浓度的环境下工作时,必须使用合适的已认证的呼吸器。

正常操作条件下, 呼吸保护是不必要的。

双手保护 正常使用条件下不需要。

使用带侧罩或安全眼镜的护目镜作为工人长期暴露的机械屏蔽。 眼睛/面部保护 身体保护

全套防化学试剂工作服,阻燃防静电防护服,防护设备的类型必须

根据特定工作场所中的危险物的浓度和含量来选择。

注:1. N.E. 就是还没有建立的意思。

9.物理和化学特性

物理状态 锂离子电池组,绿色棱柱形

颜色 无数据资料

气味 无味

熔点/凝固点 无数据资料 沸点或初始沸点和沸程 无数据资料 无数据资料 易燃性 无数据资料 上、下爆炸极限/易燃极限 闪点 无数据资料 自燃温度 无数据资料 分解温度 无数据资料

无数据资料 pH 值 无数据资料 运动粘度

溶解性 无数据资料

分配系数:正辛醇/水(对数 无数据资料

值)

蒸汽压 无数据资料

锂离子电池组 36V10AH/360Wh

密度和/或相对密度 无数据资料 相对蒸气密度(空气=1) 无数据资料 颗粒特征 无数据资料

10. 稳定性和反应活性

反应性 无数据资料。

化学稳定性 在要求的贮存条件下,这是个稳定的产品。

有害反应的可能性不聚合。

需避开的条件(如:静电放 误操作,高温,防止短路和防止可导致短路的移动。长时间暴露在

电,震动等) 潮湿的条件下。

不相容的物质 强氧化剂,腐蚀品。如果发生泄漏,避免与强氧化剂,无机酸,强

碱等接触。

有害分解产物 金属氧化物,一氧化碳,二氧化碳等有毒烟雾和气体。

11.毒理学信息

进入人体内的途径:皮肤接触、眼睛接触、吸入和摄入。

急性毒性 LD50 (口服, 大鼠): 未知

LC50 (吸入, 大鼠): 未知

LD50 (皮肤, 兔子): 未知

皮肤腐蚀/刺激 其中的电解质对皮肤有刺激性。 严重眼损伤/刺激 其中的电解质对眼睛有刺激性。

 呼吸或皮肤敏化作用
 未分类

 生殖细胞致突变性
 未分类

 致癌性
 未分类

 生殖毒性
 未分类

 特定目标器官毒性-单次接触
 未分类

 特定目标器官毒性-重复接触
 未分类

 吸入危险
 未分类

慢性影响 未分类

其他信息 万一发生与电芯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,并可能损坏靶器官的神经。无

详细的毒理学研究。

12. 生态学信息

生态毒性

水生毒性 测试 & 物种

96 Hr LC50 鱼: 未知 48 Hr EC50 溞类: 未知 72 Hr EC50 藻类: 未知

 持久性和降解性
 未知

 潜在的生物累积性
 未知

 土壤中的迁移性
 未知

 其他信息
 无

13. 废弃处置

废物处置说明

联系一家有资质的专业废物处置机构来处置。

按照当地的环境法规或地方当局的要求来进行处置。

14. 运输信息

联合国《关于危险货物运输的建议书 规章范本》(TDG)

 UN 编号
 UN 3480

 正式运输名称
 锂离子电池组

危险类/项别 第9类 杂项危险物质和物品

包装类别 次要危险性 危险性标签



注:该样品为锂离子电池组,瓦特额定值大于一小时 100wh,内含 10 串 5 并共 50 个电芯,并通过 UN 38.3 要求的各项试验。电池具有防止反向电流造成危险所需的有效装置。锂电池需装有安全排气以及防止外部短路的有效装置,并有高质量的管理方案才可按上述条目运输。锂电池必须完全封装在内包装内,位于坚固的外包装中。包装件必须满足 II 级包装的性能要求。

国际海运危规 IMDG/海 洋污染物(是/否) 与 TDG 的分类相同/否 EmS 编号: F-A, S-I

根据 IMDG Code(2018 版)的 2.9.4.7, 锂电池或电池组的制造商和出厂后的销售商应提供联合国《试验和标准手册》第 III 部分第 38.3 小节第 38.3.5 段规定的 UN38.3 试验概要。

国际空运危规 IATA-DGR 和 ICAO-TI 与 TDG 的分类相同

空运中本品应满足 IATA DGR 包装说明 965 的基本要求和第 IA 部分的规定。根据 IATA DGR (62 版)的 3.9.2.6.1(g),2003 年 06 月 30 日以后生产的电池芯或电池的制造商和下游销售商必须提供联合国《试验和标准手册》第 III 部分第 38.3 节的第 38.3.5 段中规定的测试摘要。

IATA DGR (62 版)特殊要求 A164,任何电池或以电池驱动的设备、装置或车辆,如果会产生危险放热,其运输必须采取以下保护措施: (a)防短路; (b)防意外启动。特殊要求 A802,尽管 E 栏无包装等级,此条目所列物品必须包装在符合包装等级 II 级的联合国规格包装容器中。此规定不适用于按包装说明 965 或 968 第 IB 部分准备的锂电池。

15. 法规信息

欧洲/国际法规

OSHA (美国职业安全和 危险性根据危害通讯标准来编写 (29CFR 1910.1200).

健康管理法):

EINECS (欧洲现有商业 无数据资料。

化学物质名录):

EPA TSCA(有毒物质控 无数据资料。

制法):

加拿大 DSL/NDSL(国

无数据资料。

内物质清单)/(非国内物

质清单):

HMIS(危险品识别系统): 健康危害: 1

易燃性: 0 物理危害: 0 个人防护: F

(4. 极其严重危害; 3. 严重危害; 2. 中度危害; 1. 轻度危害; 0.

极小危害)

WHMIS(加拿大工作场 所有害物质识别系统): 未知。

ICAO-TI

1.除非依据《技术细则》的相关要求取得豁免,单独包装的锂离子电池(芯)(UN 3480, PI 965)和锂金属电池(芯)(UN 3090,

PI 968) 货物禁止使用客机运输。

2.除非依据《技术细则》的相关要求取得特别批准,按照包装说明965要求运输的锂离子电池(芯)货物,交运时锂离子电池(芯)

的荷电状态(SoC)不得超过其额定容量的 30%。

3.在任何一票货物中,按照包装说明 965 第 II 节或 968 第 II 节要求运输的锂电池货物包装件不得超过一个。每个集合包装中所装的按照包装说明 965 第 II 节或 968 第 II 节要求运输的锂电池货物包

装件不得超过一个。

4.按照包装说明 965 或 968 第 II 节要求运输的锂电池货物包装件或集合包装必须与其它货物分开交运,且在交运前不得装入集装器。联合国编号: UN 3480,名称和说明:锂离子电池组,包装类别:

危险货物品名表(GB 12268-2012)

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本报告所述锂电池已通过《联合国 试验和标准手册》第 III 部分 38.3 小节相应测试要求。

16. 其他信息

雇主只能把本化学品安全数据表的信息当作他们所获其他信息的补充信息,并能独立判断 此信息的适用性,以确保正确使用并保护雇员的健康和安全。此化学品安全数据表提供的信息并 不具担保作用,任何未按本化学品安全数据表使用产品、或与其他产品和操作过程同时使用本产 品时产生的后果由用户自行承担。

本化学品安全数据表是根据《全球化学品统一分类和标签制度》,《联合国关于危险货物运输的建议书》,《国际海运危规》,国际航空运输协会《危险货物规则》和国家标准等相关危险化学品管理法律法规和标准进行编制,而上述法律法规和标准均会定期进行更新和变化。为使危险货物/危险化学品符合相关最新的管理要求,建议定期审核更新化学品安全数据表。

本化学品安全数据表分别以中、英文编制,在对中、英文本的理解上发生歧义时,以中文文本为准。

缩略语 ADR:《关于危险货物道路国际运输的欧洲协议》

RID:《关于危险货物铁路国际运输的规则》

IMDG: 国际海运危规

IATA-DGR: 国际航空运输协会《危险货物规则》(IATA)

化学品安全数据表

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锂离子电池组 36V10AH/360Wh

依据 GHS 第8修订版编写

ICAO-TI: 国际民用航空组织《国际民航公约》(ICAO)

EINECS: 欧洲现有商业化学物质名录

CAS: 化学文摘号 LC50: 半数致死浓度 LD50: 半数致死剂量 EC50: 半数效应浓度

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附:样品照片 Sample Photos





铭牌 / Nameplate



电池/Battery(36V10AH/360Wh)





包装照片 / Package Photos

















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