

国家危险化学品检测重点实验室(浙江)

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正本/ORIGIN

编号: TCH23018917 No: TCH23018917 日期: 2023-09-18 Date: 2023-09-18

ZAIQ-RF(HH)-01-19

Safety Data Sheet

扫描杏看在线报告



Applicant name: REPT BATTERO Energy Co., Ltd.

Product Name: Rechargeable Prismatic Lithium-ion Cell/CB71/3.2V 320Ah

1024Wh

Edit date: 2023-09-180

Edit institution: Technology Center of Hangzhou Customs District

Approver:

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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The result in this test report is only valid for the tested samples.

2.本报告无授权人签字、未加盖本机构报告专用章无效。

This report is invalid without authorized signature or the stamp of this organization.

3.对本报告中检测数据如有异议,请在收到报告后十五天内提出复测申请(部分特殊项目不能复

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。

If there is any dissidence to the test data, the entrusting party shall apply for retesting within 15 days upon receiving this report (Some special item can not be retested). The former tested samples will be used as the retested ones. If the retest results are the same as the former ones, the retest fee will be paid by the entrusting party.

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

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Rechargeable Prismatic Lithium-ion Cell/CB71/3.2V 320Ah 1024Wh According to GHS rev 9 1. Identification of substance Product Name Rechargeable Prismatic Lithium-ion Cell/CB71/3.2V 320Ah 1024Wh Other Name None Chemical Name None Energy supply, Energy storage product Recommended Use Supplier REPT BATTERO Energy Co., Ltd. Address No.205, Binhai 6th Road, Konggang New District, Longwan District, Wenzhou, Zhejiang, P.R. China / 325058 Manufacturer REPT BATTERO Energy Co., Ltd. No.205, Binhai 6th Road, Konggang New District, Longwan Address District, Wenzhou, Zhejiang, P.R. China / 325058 Phone Number +86-0577-86880706 Fax Number +86-0577-86865888 WEB or E-mail www.chinarept.com +86-0577-86880706 or Call your nearest poison control centre **Emergency Phone** Number 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 3. Composition/information on ingredients **□Substances** √ Mixtures **Component Information** Component **CAS** number **EINECS** number Mass(%)

4. First-aid measures

In case of shortness of breath, give oxygen. Keep victim warm. NOTE TO PHYSICIAN

Keep victim under observation.

Move to fresh air. Oxygen or artificial respiration if needed. Get After inhalation

	5
After skin contact	immediate medical attention. In case of contact with substances in the battery, immediately
	flush skin thoroughly with soap and plenty of water. Remove and isolate contaminated clothing and shoes. If irritation
	persists, get medical attention immediately. For minor skin
	contact, avoid spreading material on unaffected skin. Wash
After eye contact	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.
After ingestion	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
Most important	ingested the substance. Seek immediate medical attention. No data available.
symptoms / effects,	The data divalidates
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 have better extinguishing effects.
Special hazards caused	Cell may vent when subjected to excessive heat-exposing
by the material, its	battery contents.
products of combustion	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	
Person-related safety precautions	If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out
precuations	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	
environmental protection	
17 4/7	governmental permits.
Measures for cleaning/collecting	
Measures for	governmental permits. If batteries show signs of leaking, avoid skin or eye contact with
Measures for	governmental permits. If batteries show signs of leaking, avoid skin or eye contact with 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
Measures for	governmental permits. If batteries show signs of leaking, avoid skin or eye contact with the material leaking from the battery. Use chemical resistant rubber gloves and non-flammable absorbent materials for clean

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

7. Handling and storage

Handling

Information for safe handling

Operators should be trained and strictly abide by the operating 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

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.

Suggested temperature: -10° $\sim 40^{\circ}$ $^{\circ}$:

Suggested temperature: -10 $^{\circ}$ C \sim 40 $^{\circ}$ C; Relative humidity: 10% RH \sim 90% RH.

Information about storage in one common storage facility

Store in a cool, well-ventilated area. Keep away from fire, heat 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. The storage area shall be equipped with corresponding types and quantities of fire-fighting equipment, leakage emergency treatment equipment and appropriate materials.

Further information about storage conditions

8. Exposure controls/personal protection

Limit Values for Exposure

Component CAS ACGIH ACGIH NIOSH NIOSH

	number	TLV-TWA	TLV-STEL	REL-TWA	REL-STEL	
	——					
Appropriate engineering	Use ventilati	on system an	d equipment	t. In case of	battery	
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	_	tection is reco	ommended f	or venting ba	attery:	
equipment	respiratory p	rotection, pro lass with side	otective glov		-	
Breathing equipment	When worke appropriate	rs are facing certified respi nder conditior	high concent rators. Resp	iratory prote		
Protection of hands	Not necessar	ry under cond	litions of nor	mal use.		
Eye/Face protection	, -	lasses with si parrier for pro			les as	
Body protection	Full set of ar	nti chemical re	eagent overa	ılls, flame ret	tardant	
	-	tective clothi	_			
		nt and concer		e dangerous		
	substance at the work place.					
Dhysical state	· ·	nd chemical p	•			
Physical state	Size (L*W*H	Cell, blue pris $(71.7\pm2)^*$		(206.8±2) (mm)	
Colour	No data avai	lable			7	
Odour	Odourless					
Melting point/freezing point	No data avai				>	
Boiling point or initial boiling point and boiling range	No data avai	lable				
Flammability	No data avai	lable				
Lower and upper explosion limit/	No data avai	lable				
flammability limit	No doto ovo:	labla				
Flash point	No data avai					
I Auto-ignition	ハマ マンチン フバン・	lahlo				
Auto-ignition temperature	No data avai	lable				
	No data avai					

	Techniquale I lismatic Elimin	mi-ton Cen/CB/1/3.2 v 320Aii 1024 wii According to Gris lev 9
	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	
	Relative vapour density	No data available
	(air=1)	
	Particle characteristics	No data available
		10. Stability and reactivity
	Reactivity	No data available.
	Chemical stability	This is a stable product under recommended storage
	13,72	conditions.
	Possibility of hazardous	No polymerization.
	reactions	
	Conditions to avoid (e.g.	Fire source, heating source, disassemble, external short circuit,
	static discharge, shock or	crushes, deformation, high temperature, direct sunlight, high
	vibration)	humidity, immerse in water or overcharge, etc.
	Incompatible materials	Explosives, inflammables, strong oxidants and corrosives. If
		leaked, forbidden to contact with strong oxidising agents,
		mineral acids, strong alkalis, etc.
	Hazardous	Metal oxides, carbon monoxide, carbon dioxide and other toxic
	decomposition products	smoke and gas.
	D 1 (51 D 1	11.Toxicological information
		ontact, eye contact, inhalation, ingestion.
	Acute Toxicity	LD50 (Oral, rat) N/A
		LC50 (Inhalation, rat) N/A LD50 (Dermal, rabbit) N/A
	Skin corrosion/Irritation	The internal battery materials may cause skin irritation.
		The internal battery materials may cause eye irritation.
	damage/irritation	The internal battery materials may cause eye irritation.
	Respiratory or skin	Not classified
	sensitization	TVOC Classified
	Germ cell mutagenicity	Not classified
	Carcinogenicity	Not classified
	Reproductive toxicity	Not classified
	STOT-single exposure	Not classified
	STOT-repeated exposure	Not classified
4	Aspiration hazard	Not classified
	Chronic Effects	Not classified
	Further Information	In the event of exposure to internal contents, moderate or
		severe irritation, burning and dryness of the skin may occur,

Rechargeable Prismatic Lithium-ion Cell/CB71/3.2V 320Ah 1024Wh

and may damage the nerves of the target organs. No detailed toxicological study.

12. Ecological information

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

degradability

Bioaccumulative

potential

Mobility in soil Additional Information Not available

Not available

Not available

May cause water or soil pollution.

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

Class/Division

Package Group Subsidiary risk

labeling pictogram

LITHIUM ION BATTERIES

Class 9 Miscellaneous Dangerous Substances and Articles



Note: The sample is Rechargeable Lithium-ion Cell with a Watt-hour rating in excess of 20wh, and passed the tests required by UN 38.3. Cells and batteries incorporate a safety venting device. Cells and batteries are properly protected to prevent short circuits, and have a quality management programme 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.

Being same with TDG Maritime transport IMDG

Marine pollutant (Yes/No): No

EmS No.: F-A, S-I

Each package must be labeled with the Class 9 Lithium Battery

hazard label (Model No.9A ,5.2.2.2 in IMDG code).

According to 2.9.4.7 of IMDG Code (2022 Edition), except for button cells installed in equipment (including circuit boards), manufacturers and subsequent distributors of cells or batteries manufactured after 30 June 2003 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 (64th Edition), except for button cells installed in equipment (including circuit boards), 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 (64th 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 Workplace Hazardous Material Identification System Ratings):

Unknown.

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.

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

BATTERIES, Packing Group: II.

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 18.09.2023 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:瑞浦兰钧能源股份有限公司

产品名称: 可充电方形锂离子电池/CB71/3.2V 320Ah 1024Wh

编制日期: 2023-09-18-7

编制机构、杭州海关技术中心

批准人: 人名人位皇位:

扫描杏看在线报告



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依据 GHS 第9修订版编写

	1. 标识
产品名称	可充电方形锂离子电池/CB71/3.2V 320Ah 1024Wh
英文名称	Rechargeable Prismatic Lithium-ion Cell/CB71/3.2V 320Ah
	1024Wh
其他名称	无
化学名称	无
使用建议	单独电池:供能,供能产品
供应商	瑞浦兰钧能源股份有限公司
地址	浙江省温州市龙湾区空港新区金海二道滨海六路 205 号/325058
生产单位	瑞浦兰钧能源股份有限公司
地址	浙江省温州市龙湾区空港新区金海二道滨海六路 205 号/325058
固定电话	+86-0577-86880706
传真	+86-0577-86865888
网址或电子邮件地址	www.chinarept.com
应急电话	+86-0577-86880706 或向离你最近的解毒中心求助
1 1/10	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(%)
•••••	
对医师孙尹沙	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。
ጤ λ ⊨	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。脱上特殊污染的衣服和鞋子。加皮肤刺激仍继续,须求医,加原具小面
I	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

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。

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

	○宋 L子 + 井 →	-
5.	消防措施	乜,

大量水(降温),可用干粉、砂土、泡沫和二氧化碳灭火。七氟丙 合适的灭火剂

烷和全氟己酮对锂电池灭火效果较好。

当电芯暴露于过热的环境中时,安全阀可能会打开。 由物质本身或其燃烧产物、

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

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。 与人相关的安全防范措施

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

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 安全操作的信息

> 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 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。

建议温度: -10℃~40℃; 相对湿度: 10%RH~90%RH。

关于储藏在普通存储设施

中的信息

储存于阴凉、通风的库房内。远离火种、热源、避免阳光直射。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。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 阈限值-时 间加权平 均浓度

ACGIH 阈限值-短 时间接触 限值

限值-时间加 权平均浓度

NIOSH 阈

限值-短时 间接触限值

NIOSH 阚

减少接触的工程控制方法 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

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。

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 一般保护和卫生措施

所严禁吸烟、饮水和饮食。工作后,沐浴更衣。

个人防护用品 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

有护边的安全玻璃罩。

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。 呼吸设备

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。

9.物理和化学特性

锂离子电池芯,外观为蓝色棱柱形 物理状态

尺寸(长宽高): (71.7±2)*(174.0±2)*(206.8±2)(mm)

颜色 无数据资料

气味 无味

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

无数据资料 分解温度 pH 值 无数据资料 运动粘度 无数据资料 无数据资料

溶解性

可充电方形锂离子电池/CB71/3.2V 320Ah 1024Wh

分配系数:正辛醇/水(对数 无数据资料

值)

蒸汽压无数据资料密度和/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 火源、热源、拆卸、外部短路、压碎、变形、高温、阳光直射、高

电,震动等) 湿度、浸水或过充等。

不相容的物质 爆炸品、易燃物、强氧化剂和腐蚀剂。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 其中的由解质对皮肤有刺激性

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

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。

未分类

12. 生态学信息

生态毒性

慢性影响

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

其他信息可能造成水或土壤污染。

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:该样品为可充电锂离子电池芯,瓦特-小时额定值大于 20wh,并通过 UN 38.3 要求的各项试验。该锂电池芯需装有安全排气、防止外部短路所需的有效装置,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

与 TDG 的分类相同

海洋污染物(是/否): 否

EmS编号: F-A, S-I

每个包装件必须使用 9 类锂电池危险性标签(IMDG code

5.2.2.2.2 图 No.9A)。

根据 IMDG Code(2022 版)的 2.9.4.7,除了安装在设备(包括电路板)中的纽扣电池,2003 年 06 月 30 日之后生产的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 (64 版)的 3.9.2.6.1(g),除了安装在设备(包括电路板)中的纽扣电池,2003 年 06 月 30 日之后生产的锂电池或电池组的制造商和出厂后的销售商必须提供联合国《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。

IATA DGR (64 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)

未知。

WHMIS(加拿大工作场 所有害物质识别系统):

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)

的荷电状态不得超过其额定容量的30%。

危险货物品名表(GB

联合国编号: UN 3480, 名称和说明: 锂离子电池组, 包装类别:

12268-2012) II.

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) ICAO-TI: 国际民用航空组织《国际民航公约》(ICAO)

可充电方形锂离子电池/CB71/3.2V 320Ah 1024Wh

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

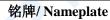
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编制标准 全球化学品统一分类和标签制度 第 1.5 部分

编制机构 杭州海关技术中心

附:样品照片 Sample Photos





电芯/ Cell (可充电方形锂离子电池/CB71/3.2V 320Ah 1024Wh)





委托方提供的包装照片 / Package Photos provided by the Applicant





报告结束

