

Safety Data Sheet

安全技术说明书

Product Name 产品名称: Rechargeable Li-ion Battery Pack

Model 型号: 5F39E9

Issue Date 签发日期: 2021.03.16

Report No.报告号: SZFJ20210114SDS01

Max Ferry Jack Yang Compiler 编制:

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广州三帕认证技术服务有限公司

Guangzhou CP-UP Certification Technology Service Co., Ltd.



Section 1 - Chemical and Company Identification 第一部分-化学品及企业标识		
Product Name		Rechargeable Li-ion Battery Pack
产品名称		可充式锂离子电池组
Mode	// 型号	5F39E9
Ratings/	额定参数	7.2V, 2400mAh,17.28Wh
Appli	cant	FUJI Electronics (Shenzhen) Co., Ltd.
申请	青 商	富基电子(深圳)有限公司
Applicant	address	No.10 Building, No.2 Industrial Zone, Tangxiayong Village, Songgang
申请商	 雨地址	Street, Bao'an District, Shenzhen City, Guangdong Province, P.R. China
		中国广东省深圳市宝安区松岗街道塘下涌第二工业区第 10 栋
Manufa	acturer	FUJI Electronics (Shenzhen) Co., Ltd.
制造		富基电子(深圳)有限公司
Manufacturer		No.10 Building, No.2 Industrial Zone, Tangxiayong Village, Songgang
Contact	address	Street, Bao'an District, Shenzhen City, Guangdong Province, P.R. China
information	地址	中国广东省深圳市宝安区松岗街道塘下涌第二工业区第 10 栋
制造商联系信息	Tel./应急电话	86-755-33893788
	Email/邮箱	liyanqing@fujielectronics.com.cn
	Zip code/邮编	518105
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Section 2 - Hazards Identification

第二部分-危险性概述

Hazards Identification: 危险性描述

Not dangerous with normal use. Do not dismantle, open or shred the battery ingredients contained within or their ingredients products could be harmful.

正常使用没有危险,不能拆解、打开或分解电池,里面的材料或成分是有害的。

Primary Route (s) of Exposure: 接触途径

inhalation, ingestion, Skin contact and Eye contact.

吸入、食入、皮肤接触、眼睛接触。

Potential Health Effects: 潜在健康影响

inhalation: Vapors or mists from a ruptured battery may cause respiratory irritation.

吸入: 破裂的电池散发出来的气雾会引起呼吸道刺激。

Ingestion: The battery ingredients contained within or their ingredients products can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.

食入: 电池的组成成分或原料可以导致嘴,食道和胃肠道的严重化学烧伤。

Skin: Skin contact with contents of an open battery can cause severe irritation or burns to the skin.

皮肤: 皮肤接触到电池的内部化学材料可能会导致严重的刺激或烧伤皮肤。

Eye: Eye contact with contents of an open battery can cause severe irritation or burns to the eye.

眼睛: 眼睛接触到电池的内部化学材料可能会导致严重的刺激或烧伤眼睛。



Section 3- Composition/Information on Ingredients 第三部分-成分/组成信息 **Concentration or Chemical Name CAS Number** concentration ranges (%) CAS 号(化学文摘索引登记号) 化学名称 浓度或浓度范围(%) 石墨 Graphite 7782-42-5 38.2 镍钴锰酸锂 Cobalt lithium 1 82442-95-1 5.1 manganese nickel oxide 铝 Aluminum 7429 -90-5. 4.0 碳酸亚乙酯 EC 96-49-1 3.3 碳酸甲乙酯 EMC 623-53-0 3.4 碳酸亚乙酯 DMC 616-38-6 32.4 聚丙烯 Polypropylene 9003-07-0 6.6 六氟磷酸锂 LiPF₆ 21324-40-3 2.8 铜 Copper 7440 -50-8 4.2

Note: CAS number is Chemical Abstract Service Registry Number.

注意: CAS 号是化学文摘服务注册号。

N/A=Not apply. N/A=不适用

	Section 4- First Aid Measure 第四部分-急救措施
Inhalation 吸入	Remove source of contamination or move victim to fresh air. Obtain medical advice. 移除污染源或者将受害者移至新鲜空气处。寻求医生建议。
Ingestion 食入	Please rinse mouth thoroughly with water, induce vomiting under the guidance of professional personage. Please seek medical treatment in time. 立即用清水漱口,在专业人士的指导下催吐,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. 脱下己污染衣服,用大量的水冲洗至少 15 分钟,速就医。
Eye contact 眼睛接触	Irrigate with flowing water for 15 minutes. If irritation persists, consult a physician. 用流动水冲洗 15 分钟,如刺激持续发生,请求助于医生。

Section 5- Fire Fighting Measures		
	第五部分-消防措施	
Characteristics of Hazard	Toxic fumes, gases or vapors may evolve on burning.	
危险特性	火灾时可释放有害浓烟、气体或者蒸汽。	
Hazardous Combustion Products	Carbon monoxide, carbon dioxide, lithium oxide fumes and so on.	
燃烧产生的危险物品	一氧化碳,二氧化碳,锂氧化物烟气等。	

Fire-extinguishing Methods and Extinguishing Media 灭火方法及灭火剂	Please use water, dry sand and other proper fire extinguishing media. 请使用水,干沙等合适的灭火介质。
Attention in Fire-extinguishing 灭火注意事项	The firemen should put on antigas masks and full fire-fighting suits. 消防人员须佩戴防毒面具、穿全身消防服。

Section 6- Accidental Release Measure		
第六部分-泄漏应急处理		
Personal Precautions, protective	Restrict access to area until completion of clean-up.	
equipment, and emergency	Do not touch the spilled material. Wear adequate personal protective	
procedures	equipment as indicated in Section 8.	
个人预防措施、防护装备和应急	限制区域,直到完成清理工作。请勿触摸泄漏的材料。穿戴适当的个	
程序	人防护设备,如第8部分所示。	
Environmental Precautions	Prevent material from contaminating soil and from entering sewers or	
环境保护措施	waterways.	
	防止物质污染土壤和进入下水道或水道。	
Methods and materials for	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or	
Containment	earth. Clean up spills immediately.	
方法和材料控制	出于安全,阻止泄漏,可以用干沙或沙土来遏制液体泄露,立即清理	
	泄漏。	
Methods and materials for	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop	
cleaning up	contaminated absorbent into an acceptable waste container. Collect all	
清理的方法和材料	contaminated absorbent and dispose of according to directions in Section	
	13. Scrub the area with detergent and water; collect all contaminated	
	wash water for proper disposal.	
	用惰性吸收剂(干沙或沙土)吸收溢出的材料。污染物转移到可吸收废	
	物的容器。收集所有受污染的吸收剂和根据第 13 部分的指令处置。	
	用洗涤剂和水清洁污染区域,收集所有受污染的洗涤水进行适当处	
	置。	

	Section 7- Handling and Storage 第七部分-操作处置与储存
Handling	Don't handing the batteries in manner that allows terminals to short circuit. Do not open,
操作	disassemble, crush or burn battery.
	不要以让接头短路的方式对电池进行操作。不要打开,分解,挤压或燃烧电池。
Storage	if the battery is subject to storage for such a long term as more than 3 months, it is recommended
储存	to recharge the battery periodically.
	如果电池长期存放超过3个月,建议定期对电池充电。
	Long period storage: 25±5°C, 60±25%R.H
	长期存储: 25±5°C,相对湿度 60±25%
	Do not storage the battery haphazardly in a box or drawer where they may short-circuit each
	other or be short-circuited by other metal objects.
	不要将电池随意丢在盒子或抽屉里,以免电池之间或电池与其他金属物质发生短路。
	Keep out of reach of children.

储存在小孩接触不到的地方。

Do not expose the battery to heat or fire. Avoid storage in direct sunlight.

不要将电池暴露在火源和热源附近,避免在阳光直射下存储。

Do not store together with oxidizing and acidic materials.

不要与氧化和酸性物质存储在一起。

Section 8 - Exposure Controls/Personal Protection 第八部分-接触控制和个体防护		
Engineering Controls 工程控制	No engineering controls are required for handling batteries that have not been damaged. Personal protective equipments for damaged batteries should include chemical resistant gloves and safety glasses. 操作未破损的电池,没有工程控制要求。对于破损的电池,个人防护用品应包括化学品防护手套和安全眼镜。	
Personal Protective Equipment 个人防护设备	Respiratory Protection: in case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use. Not necessary under conditions of normal use. 呼吸保护: 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。正常操作条件下,呼吸保护是不必要的。正常使用条件下不必考虑。 Protective Gloves: Not necessary under conditions of normal use. 防护手套: 正常使用条件下不必考虑。 Other Protective Clothing or Equipment: Not necessary under conditions of normal use. 其他防护服装或设备: 正常使用条件下不必考虑。 Personal Protection is recommended for venting battery: Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields. 当电池排气阀打开时,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。	

Section 9- Physical and Chemical Properties 第九部分-理化特性

Appearance: Black 外观颜色: 黑色 Physical state: Solid

物理状态: 固体 **Form**: Prismatic **形状:** 棱柱形

Melting Point °C: >300°C

熔点℃: >300℃ Odor: Odorless 气味: 无气味

Solubility: Partial soluble in water

溶解度: 部分溶于水



Section 10 - Stability and Reactivity 第十部分-稳定性和反应性		
Stability	Stable under normal temperatures and pressures.	
稳定性	常温常压下稳定。	
	Heat above 70°C 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°C 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。	
Hazardous Decomposition Products 危害分解物	Toxic Fumes, and may form peroxides. 有毒烟雾,并可能形成过氧化物。	
Possibility of Hazardous	If leaked, forbidden to contact with strong oxidizers ,mineral acids ,strong alkalis,	
Reaction	halogenated hydrocarbons.	
危险反应的可能性	如果发生泄露,避免与强氧化剂,无机酸,强碱,卤代烃接触。	

Se	Section 11 - Toxicological Information	
	第十一部分-毒理学信息	
	In the event of exposure to internal contents, vapor fumes may be very	
Irritation 刺激	irritating to the eyes and skin.	
水山板	内部物质暴露的情况下,蒸汽烟雾可能对眼睛和皮肤产生刺激性。	
Sensitization	Not applicable.	
致敏	不适用	
Reproductive Toxicity	Not applicable.	
再生毒性	不适用	
Toxicologically Synergistic	Not applicable.	
Materials		
协同材料毒理学	不适用	

Section 12-Ecological Information		
	第十二部分-生态学信息	
Companylynata	Do not allow undiluted product or large quantities of it to reach	
General note	ground water, water course or sewage system.	
通用信息	不允许未稀释或大量的产品到达地下水、水道或污水系统。	
Anticipated behavior of a chemical		
product in environment/possible	Not applicable.	
environmental impact/ ecotoxicity	Not applicable. 不适用	
化学产品在环境/可能的环境预 期的行		
为的一种生态毒性		
Mobility in soil	Not applicable.	
土壤中移动性	不适用	
Persistence and Degradability	Not applicable.	
持久性和降解性	不适用	

Section 13 - Disposal Considerations			
	第十三部分-废弃处置		
Waste Treatment	Recycle or dispose of in accordance with government, state & local		
度弃处置方法	regulations.		
灰开处且 <i>万坛</i> 	建议遵照国家和地方法规处置或再利用。		
Attention for Waste	Deserted batteries couldn't be treated as ordinary trash. Couldn't be thrown into fire or		
	placed in high temperature. Couldn't be dissected, pierced, crushed or treated similarly.		
Treatment	Best way is		
) 废弃注意事项	recycling.		
	废电池不能被当做普通垃圾。不能扔进火中或置于高温下。不能解体, 刺穿,破碎或类似		
	的处理。最好的办法是回收利用。		

Section 14 - Transport Information 第十四部分-运输信息

The battery shall be passed the test items of the UNITED NATIONS "Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria" section 38.3 and meet the requirements of UNITED NATIONS "Recommendations on the Transport of Dangerous Goods, model Regulations"

该电池必须通过联合国《关于危险货物运输的建议书 试验和标准手册》第 38.3 章节的测试项目和满足联合国《关于危险货物运输的建议书 规章范本》的要求。

The battery shall be protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit;

该电池必须做好防短路保护。包括防止与同一封装内的导电材料接触可能导致的短路。

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. 包装应足以避免在运输,处理和堆放期间的机械损坏。

The package must be handled with care and that a flammability hazard exists if the package is damaged. 包装必须小心处理,如果包装损坏,存在易燃危险。

With regard to transport, the following regulations are cited and considered:

关于运输,引用和考虑了以下法规:

- -The international Civil Aviation Organization (ICAO) Technical Instructions.
- -国际民用航空组织(ICAO)技术细则。
- -The international Air transport Association (IATA) Dangerous Goods Regulations.
- -国际航空运输协会(IATA)危险物品规则。

The battery can be shipped by air in according to Section II /Section IB of PACKING INSTRUCTION 965, or Section II of PACKING INSTRUCTION 966 ~ 967 of the 2021 IATA Dangerous Goods regulations 62th Edition.

该电池可以根据 2021 年 IATA 危险物品规则第 62 版包装指令 965 第 Ⅱ 部分/第 IB 部分或包装指令 966~967 第 Ⅱ 部分运输。

UN number: UN3480 or UN3481;

UN 编号: UN3480 或 UN3481:

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries packed with equipment or Lithium ion batteries contained in equipment;

UN 合适的运输名称/描述(技术名称): 锂离子电池或锂离子电池与设备包装在一起或锂离子电池内置于设备中;

UN Classification (Transport hazard class): Class 9 (PI965 Section IB) or N/A (PI965 ~ 967 Section II)

UN 分类(运输危险类别): 9 类危险品(包装指令 965 第 IB 部分)或者不适用(包装指令 965 ~ 967 第 Ⅱ 部分)

UN packaging group: N/A UN 包装类别:不适用

-The international Maritime Dangerous Goods (IMDG) Code.

-国际海运危险货物(IMDG)规则。

UN number: UN3480 or UN3481:

UN 编号: UN3480 或 UN3481;

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries packed with equipment or Lithium ion batteries contained in equipment;

UN 合适的运输名称/描述(技术名称): 锂离子电池或锂离子电池与设备包装在一起或锂离子电池内置于设备中;

UN Classification (Transport hazard class): N/A

UN 分类(运输危险类别): 不适用

UN packaging group: N/A

UN 包装类别:不适用

The battery is not restricted according to IMO IMDG Code (inc Amdt 39-18).

海运按照 IMO IMDG Code (inc Amdt 39-18)可按普通货物条件办理。

Need to meet the Special Provision: international maritime dangerous goods code (IMDG) 188, 230, 310, 348, 957:

需要符合这些特殊条款:国际海运危险货物规则(IMDG) 188, 230, 310, 348, 957;

Section 15 - Regulatory Information

第十五部分-法规信息

International Civil Aviation Organization (ICAO) Technical Instructions ICAO 国际民用航空组织(ICAO)技术细则:

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.

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.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.

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%。

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.

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.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.

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。

Section 16 - Additional Information

第十六部分-附加信息

Compile unit 编制单位:

Guangzhou CP-UP Certification Technology Service Co., Ltd.

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Revision 修订: 0

Other Information 其他信息:

The information above is believed to be accurate and represents the best information currently available to us. However, we 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 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.

在我们看来上面的信息是准确的,这是我们目前能提供的最佳的信息。但是,对于这些信息,我们不对商品的性能 做任何明示的或者暗示的保证,我们也不对使用这些信息造成的后果担负任何责任。用户应当自己调查研究后决定 这些信息是否适用于他们的特定用途。尽管在该文档里提出了合理的预警,但是这仅仅只是给您做参考、考量和调 查。这份安全技术说明书提供了安全处理和使用该产品的指南,但是它没有,也不能对所有可能发生的情景提出建 议,所以您需要根据您对该产品的特定使用情况来决定是否需要其他的预防措施。

--End of report--

--报告结束--



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Model 型号: 5F35E9

Issue Date 签发日期: 2021.03.01

Report No.报告号: SZFJ20210301SDS01

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Product Name		Rechargeable Li-ion Battery Pack	
产品名称		可充式锂离子电池组	
Mode	l/型号	5F35E9	
Ratings/	额定参数	10.8V, 8550mAh,92.34Wh	
Appli	cant	FUJI Electronics (Shenzhen) Co., Ltd.	
申请	青 商	富基电子(深圳)有限公司	
Applicant	address	No.10 Building, No.2 Industrial Zone, Tangxiayong Village, Songgang	
申请商	 雨地址	Street, Bao'an District, Shenzhen City, Guangdong Province, P.R. China	
		中国广东省深圳市宝安区松岗街道塘下涌第二工业区第 10 栋	
Manufa	acturer	FUJI Electronics (Shenzhen) Co., Ltd.	
制造		富基电子(深圳)有限公司	
Manufacturer		No.10 Building, No.2 Industrial Zone, Tangxiayong Village, Songgang	
Contact	address	Street, Bao'an District, Shenzhen City, Guangdong Province, P.R. China	
information		中国广东省深圳市宝安区松岗街道塘下涌第二工业区第 10 栋	
制造商联系信息	Tel./应急电话	86-755-33893788	
	Email/邮箱	liyanqing@fujielectronics.com.cn	
	Zip code/邮编	518105	
	Fax/传真	86-755-33893788	

Section 2 - Hazards Identification

第二部分-危险性概述

Hazards Identification: 危险性描述

Not dangerous with normal use. Do not dismantle, open or shred the battery ingredients contained within or their ingredients products could be harmful.

正常使用没有危险,不能拆解、打开或分解电池,里面的材料或成分是有害的。

Primary Route (s) of Exposure: 接触途径

inhalation, ingestion, Skin contact and Eye contact.

吸入、食入、皮肤接触、眼睛接触。

Potential Health Effects: 潜在健康影响

inhalation: Vapors or mists from a ruptured battery may cause respiratory irritation.

吸入: 破裂的电池散发出来的气雾会引起呼吸道刺激。

Ingestion: The battery ingredients contained within or their ingredients products can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.

食入: 电池的组成成分或原料可以导致嘴,食道和胃肠道的严重化学烧伤。

Skin: Skin contact with contents of an open battery can cause severe irritation or burns to the skin.

皮肤:皮肤接触到电池的内部化学材料可能会导致严重的刺激或烧伤皮肤。

Eye: Eye contact with contents of an open battery can cause severe irritation or burns to the eye.

眼睛: 眼睛接触到电池的内部化学材料可能会导致严重的刺激或烧伤眼睛。



Section 3- Composition/Information on Ingredients 第三部分-成分/组成信息 **Concentration or Chemical Name CAS Number** concentration ranges (%) 化学名称 CAS 号(化学文摘索引登记号) 浓度或浓度范围(%) 石墨 Graphite 7782-42-5 38.2 镍钴锰酸锂 Cobalt lithium 1 82442-95-1 5.1 manganese nickel oxide 铝 Aluminum 7429 -90-5. 4.0 碳酸亚乙酯 EC 96-49-1 3.3 碳酸甲乙酯 EMC 623-53-0 3.4 碳酸亚乙酯 DMC 616-38-6 32.4 聚丙烯 Polypropylene 9003-07-0 6.6 六氟磷酸锂 LiPF₆ 21324-40-3 2.8 铜 Copper 7440 -50-8 4.2

Note: CAS number is Chemical Abstract Service Registry Number.

注意: CAS 号是化学文摘服务注册号。

N/A=Not apply. N/A=不适用

Section 4- First Aid Measure 第四部分-急救措施		
Inhalation 吸入	Remove source of contamination or move victim to fresh air. Obtain medical advice. 移除污染源或者将受害者移至新鲜空气处。寻求医生建议。	
Ingestion 食入	Please rinse mouth thoroughly with water, induce vomiting under the guidance of professional personage. Please seek medical treatment in time. 立即用清水漱口,在专业人士的指导下催吐,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. 脱下己污染衣服,用大量的水冲洗至少 15 分钟,速就医。	
Eye contact 眼睛接触	Irrigate with flowing water for 15 minutes. If irritation persists, consult a physician. 用流动水冲洗 15 分钟,如刺激持续发生,请求助于医生。	

Section 5- Fire Fighting Measures 第五部分-消防措施		
Characteristics of HazardToxic fumes, gases or vapors may evolve on burning.危险特性火灾时可释放有害浓烟、气体或者蒸汽。		
Hazardous Combustion Products 燃烧产生的危险物品	Carbon monoxide, carbon dioxide, lithium oxide fumes and so on. 一氧化碳,二氧化碳,锂氧化物烟气等。	

Fire-extinguishing Methods and Extinguishing Media 灭火方法及灭火剂	Please use water, dry sand and other proper fire extinguishing media. 请使用水,干沙等合适的灭火介质。
Attention in Fire-extinguishing 灭火注意事项	The firemen should put on antigas masks and full fire-fighting suits. 消防人员须佩戴防毒面具、穿全身消防服。

Section 6- Accidental Release Measure			
第六部分-泄漏应急处理			
Personal Precautions, protective	Restrict access to area until completion of clean-up.		
equipment, and emergency	Do not touch the spilled material. Wear adequate personal protective		
procedures	equipment as indicated in Section 8.		
个人预防措施、防护装备和应急	限制区域,直到完成清理工作。请勿触摸泄漏的材料。穿戴适当的个		
程序	人防护设备,如第8部分所示。		
Environmental Precautions	Prevent material from contaminating soil and from entering sewers or		
环境保护措施	waterways.		
	防止物质污染土壤和进入下水道或水道。		
Methods and materials for	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or		
Containment	earth. Clean up spills immediately.		
方法和材料控制	出于安全,阻止泄漏,可以用干沙或沙土来遏制液体泄露,立即清理		
	泄漏。		
Methods and materials for	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop		
cleaning up	contaminated absorbent into an acceptable waste container. Collect all		
清理的方法和材料	contaminated absorbent and dispose of according to directions in Section		
	13. Scrub the area with detergent and water; collect all contaminated		
	wash water for proper disposal.		
	用惰性吸收剂(干沙或沙土)吸收溢出的材料。污染物转移到可吸收废		
	物的容器。收集所有受污染的吸收剂和根据第13部分的指令处置。		
	用洗涤剂和水清洁污染区域,收集所有受污染的洗涤水进行适当处		
	置。		

Section 7- Handling and Storage				
	第七部分-操作处置与储存			
Handling	Don't handing the batteries in manner that allows terminals to short circuit. Do not open,			
操作	disassemble, crush or burn battery.			
	不要以让接头短路的方式对电池进行操作。不要打开,分解,挤压或燃烧电池。			
Storage	if the battery is subject to storage for such a long term as more than 3 months, it is recommended			
储存	to recharge the battery periodically.			
	如果电池长期存放超过3个月,建议定期对电池充电。			
	Long period storage: 25±5°C, 60±25%R.H			
	长期存储: 25±5°C,相对湿度 60±25%			
	Do not storage the battery haphazardly in a box or drawer where they may short-circuit each			
	other or be short-circuited by other metal objects.			
	不要将电池随意丢在盒子或抽屉里,以免电池之间或电池与其他金属物质发生短路。			
	Keep out of reach of children.			

储存在小孩接触不到的地方。

Do not expose the battery to heat or fire. Avoid storage in direct sunlight.

不要将电池暴露在火源和热源附近,避免在阳光直射下存储。

Do not store together with oxidizing and acidic materials.

不要与氧化和酸性物质存储在一起。

Section 8 - Exposure Controls/Personal Protection 第八部分-接触控制和个体防护			
Engineering Controls 工程控制	No engineering controls are required for handling batteries that have not been damaged. Personal protective equipments for damaged batteries should include chemical resistant gloves and safety glasses. 操作未破损的电池,没有工程控制要求。对于破损的电池,个人防护用品应包括化学品防护手套和安全眼镜。		
Personal Protective Equipment 个人防护设备	Respiratory Protection: in case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use. Not necessary under conditions of normal use. 呼吸保护: 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。正常操作条件下,呼吸保护是不必要的。正常使用条件下不必考虑。 Protective Gloves: Not necessary under conditions of normal use. 防护手套: 正常使用条件下不必考虑。 Other Protective Clothing or Equipment: Not necessary under conditions of normal use. 其他防护服装或设备: 正常使用条件下不必考虑。 Personal Protection is recommended for venting battery: Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields. 当电池排气阀打开时,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。		

	Section 9- Physical and Chemical Properties	
	第九部分-理化特性	
eer Dlook		

Appearance: Black 外观颜色: 黑色 Physical state: Solid

物理状态: 固体 **Form**: Prismatic **形状:** 棱柱形

Melting Point ℃: >300℃

熔点℃: >300℃ Odor: Odorless 气味: 无气味

Solubility: Partial soluble in water

溶解度: 部分溶于水



Section 10 - Stability and Reactivity 第十部分-稳定性和反应性			
Stability	Stable under normal temperatures and pressures.		
稳定性	常温常压下稳定。		
	Heat above 70°C 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°C 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。		
Hazardous Decomposition	Toxic Fumes, and may form peroxides. 有毒烟雾,并可能形成过氧化物。		
Products			
危害分解物			
Possibility of Hazardous	If leaked, forbidden to contact with strong oxidizers ,mineral acids ,strong alkalis,		
Reaction	halogenated hydrocarbons.		
危险反应的可能性	如果发生泄露,避免与强氧化剂,无机酸,强碱,卤代烃接触。		

Section 11 - Toxicological Information		
第十一部分-毒理学信息		
	In the event of exposure to internal contents, vapor fumes may be very	
Irritation 刺激	irritating to the eyes and skin.	
水山板	内部物质暴露的情况下,蒸汽烟雾可能对眼睛和皮肤产生刺激性。	
Sensitization	Not applicable.	
致敏	不适用	
Reproductive Toxicity	Not applicable.	
再生毒性	不适用	
Toxicologically Synergistic	Not applicable.	
Materials		
协同材料毒理学	不适用	

Section 12-Ecological Information		
第十二部分-生态学信息		
On and make	Do not allow undiluted product or large quantities of it to reach	
General note	ground water, water course or sewage system.	
通用信息	不允许未稀释或大量的产品到达地下水、水道或污水系统。	
Anticipated behavior of a chemical		
product in environment/possible	Not applicable. 不适用	
environmental impact/ ecotoxicity		
化学产品在环境/可能的环境预 期的行		
为的一种生态毒性		
Mobility in soil	Not applicable.	
土壤中移动性	不适用	
Persistence and Degradability	Not applicable.	
持久性和降解性	不适用	

Section 13 - Disposal Considerations		
第十三部分-废弃处置		
Waste Treatment	Recycle or dispose of in accordance with government, state & local	
一	regulations.	
<u>及开处且万伝</u> 	建议遵照国家和地方法规处置或再利用。	
	Deserted batteries couldn't be treated as ordinary trash. Couldn't be thrown into fire or	
Attention for Waste	placed in high temperature. Couldn't be dissected, pierced, crushed or treated similarly.	
Treatment	Best way is	
) 废弃注意事项	recycling.	
	废电池不能被当做普通垃圾。不能扔进火中或置于高温下。不能解体, 刺穿,破碎或类似	
	的处理。最好的办法是回收利用。	

Section 14 - Transport Information 第十四部分-运输信息

The battery shall be passed the test items of the UNITED NATIONS "Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria" section 38.3 and meet the requirements of UNITED NATIONS "Recommendations on the Transport of Dangerous Goods, model Regulations"

该电池必须通过联合国《关于危险货物运输的建议书 试验和标准手册》第 38.3 章节的测试项目和满足联合国《关于危险货物运输的建议书 规章范本》的要求。

The battery shall be protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit;

该电池必须做好防短路保护。包括防止与同一封装内的导电材料接触可能导致的短路。

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. 包装应足以避免在运输,处理和堆放期间的机械损坏。

The package must be handled with care and that a flammability hazard exists if the package is damaged. 包装必须小心处理,如果包装损坏,存在易燃危险。

With regard to transport, the following regulations are cited and considered:

关于运输,引用和考虑了以下法规:

- -The international Civil Aviation Organization (ICAO) Technical Instructions.
- -国际民用航空组织(ICAO)技术细则。
- -The international Air transport Association (IATA) Dangerous Goods Regulations.
- -国际航空运输协会(IATA)危险物品规则。

The battery can be shipped by air in according to Section II /Section IB of PACKING INSTRUCTION 965, or Section II of PACKING INSTRUCTION 966 ~ 967 of the 2021 IATA Dangerous Goods regulations 62th Edition.

该电池可以根据 2021 年 IATA 危险物品规则第 62 版包装指令 965 第 Ⅱ 部分/第 IB 部分或包装指令 966~967 第 Ⅱ 部分运输。

UN number: UN3480 or UN3481;

UN 编号: UN3480 或 UN3481:

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries packed with equipment or Lithium ion batteries contained in equipment;

UN 合适的运输名称/描述(技术名称): 锂离子电池或锂离子电池与设备包装在一起或锂离子电池内置于设备中;

UN Classification (Transport hazard class): Class 9 (PI965 Section IB) or N/A (PI965 ~ 967 Section II)

UN 分类(运输危险类别): 9 类危险品(包装指令 965 第 IB 部分)或者不适用(包装指令 965 ~ 967 第 Ⅱ 部分)

UN packaging group: N/A

UN 包装类别:不适用

-The international Maritime Dangerous Goods (IMDG) Code.

-国际海运危险货物(IMDG)规则。

UN number: UN3480 or UN3481;

UN 编号: UN3480 或 UN3481;

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries packed with equipment or Lithium ion batteries contained in equipment;

UN 合适的运输名称/描述(技术名称): 锂离子电池或锂离子电池与设备包装在一起或锂离子电池内置于设备中;

UN Classification (Transport hazard class): N/A

UN 分类(运输危险类别): 不适用

UN packaging group: N/A

UN 包装类别:不适用

The battery is not restricted according to IMO IMDG Code (inc Amdt 39-18).

海运按照 IMO IMDG Code (inc Amdt 39-18)可按普通货物条件办理。

Need to meet the Special Provision: international maritime dangerous goods code (IMDG) 188, 230, 310, 348, 957:

需要符合这些特殊条款:国际海运危险货物规则(IMDG) 188, 230, 310, 348, 957;

Section 15 - Regulatory Information

第十五部分-法规信息

International Civil Aviation Organization (ICAO) Technical Instructions ICAO 国际民用航空组织(ICAO)技术细则:

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.

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.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.

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%。

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.

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.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.

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。

Section 16 - Additional Information

第十六部分-附加信息

Compile unit 编制单位:

Guangzhou CP-UP Certification Technology Service Co., Ltd.

广州三帕认证技术服务有限公司

No.1, Aigang 7th Lane, Yunxing Zhukeng Village, Shiqiao Street, Panyu District, Guangzhou City, China

广东省广州市番禺区市桥街云星珠坑村矮岗七巷1号

Tel./电话: 0086-20-31127037 Web/网址: www.cp-up.com Email/邮箱: info@cp-up.com

Revision 修订: 0

Other Information 其他信息:

The information above is believed to be accurate and represents the best information currently available to us. However, we 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 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.

在我们看来上面的信息是准确的,这是我们目前能提供的最佳的信息。但是,对于这些信息,我们不对商品的性能做任何明示的或者暗示的保证,我们也不对使用这些信息造成的后果担负任何责任。用户应当自己调查研究后决定这些信息是否适用于他们的特定用途。尽管在该文档里提出了合理的预警,但是这仅仅只是给您做参考、考量和调查。这份安全技术说明书提供了安全处理和使用该产品的指南,但是它没有,也不能对所有可能发生的情景提出建议,所以您需要根据您对该产品的特定使用情况来决定是否需要其他的预防措施。

--End of report--

--报告结束--



常州上扬光电有限公司

CHANGZHOU SOARING TECHNOLOGY CO., LTD

常州市新北区电子产业园新科路 25 号

Tel/ +86-519-6988-0988

Page 1 of 6

MATERIAL SAFETY DATA SHEET

IDENTITY Product Category : Rechargeable Lithium-ion Battery

Model Name : V4
Brand : ring

Nominal Capacity : 6040 mAh
Nominal Voltage : 3.65V

Watt-hour : 22.046 W/hr

Chemical System : Lithium Cobaltate / Carbon

Desigened for Recharge : \square Yes \square No

SECTION 1 MANUFACTURER'S INFORMATION

Manufacturer's Name : CHANGZHOU SOARING TECHNOLOGY CO., LTD

Supplier's Name : Welltech Energy Inc.

Supplier's Address : 2F, No.181, An Mei St., Nei Hu District, Taipei City 11484, Taiwan

Information Telephone : 886-2-2790-7958 Emergency Telephone : 886-2-2790-7959

Date Prepared : 2019/12/18

SECTION 2 HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY

Skin contact, Skin absorption, Eye contact, Inhalation, and Ingestion: NO

SYMPTOMS OF EXPOSURE

Skin contact: No effect under routine handling and use. Skin absorption: No effect under routine handling and use.

Eye contact: No effect under routine handling and use. Inhalation: No effect under routine handling and use.

REPORTED AS CARCINOGEN: Not applicable

SECTION 3 MATERIAL AND INGREDIENTS INFORMATION

Battery Cell:

Hazardous Ingredients	%	CAS number
Aluminum Foil	2-10	7429-90-5



常州上扬光电有限公司

CHANGZHOU SOARING TECHNOLOGY CO., LTD 常州市新北区电子产业园新科路 25 号

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Page	2	of	6

		rage 2 or o
Metal Oxide (propietary)	20-50	
Polyvinylidene Fluoride (PVDF)	<5	24937-79-9
Copper Foil	2-10	7440-50-8
Carbon (proprietary)	10-30	7440-44-0
Electrolyte (proprietary)	10-20	
Stainless steel, Nickel and inert materials	Remainder	N/A

Circuit Module:

HAZARDOUS INGREDIENTS	%	CAS number
Lead	<0.1	7439-92-1
Mercury	0	7439-97-6
Chromium	0	7440-47-3
Cadmium	0	7440-43-9

Plastic Parts:

HAZARDOUS INGREDIENTS	%	CAS number
Lead	<0.1	7439-92-1
Nickel	< 0.01	7440-02-0
CFCs	0	75-69-4
Polyclorinated Biphenyls	0	1336-36-3

SECTION 4 FIRST-AID MEASURES

Internal cell materials of an opened battery cell

· Inhalation:

Make the victim blow his/her nose, gargle. Seek medical attention if necessary.

Remove contaminated clothes and shoes immediately. Wash the adhere or contact region with soap and plenty of water immediately.

· Eye contact:

Immediately flush eyes with water continuously for at least 15 minutes. Seek medical attention immediately.

常州上扬光电有限公司 CHANGZHOU SOARING TECHNOLOGY CO., LTD

常州市新北区电子产业园新科路 25 号

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Page 3 of 6

A battery cell and internal cell materials of an opened battery cell

Ingestion :

Induce vomiting. When it is impossible or the feeling is not well after vomiting, seek medical attention.

SECTION 5 FIRE-FIGHTING MEASURE

GENERAL HAZARD

Cell is not flammable but internal organic material will burn if the cell is incinerated. Combustion products include, but are not limited to hydrogen fluoride, carbon monoxide and carbon dioxide.

EXTINGUSHING MEDIA

Use extinguishing media suitable for the materials that are burning.

SPECIAL FIREFIGHTING INSTRUCTIONS

If possible, remove cell(s) from fire fighting area. If heated above 125°C, cell(s) can explode/vent.

FIREFIGHTING EQUIPMENT

Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.

SECTION 6 ACCIDENTAL RELEASE MEASURES

ON LAND

Place material into suitable containers and call local fire/police department.

IN WATER

If possible, remove from water and call local fire/police department.

SECTION 7 HANDLING AND STORAGE

Storage : Store in a cool, well-ventilated area. Do not expose to high temperature (60

°C).

Since short circuit can cause burn hazard or safety vent to open, do not store

with metal jewelry, metal covered tables, or metal belt.

Handling : Do not disassemble, crush or solder. Do not short + and – terminals with a

metal. Do not open the battery.

Charging : Charge within the limits of 0° to 50° temperature. Charge with specified

charger designed for this battery.

Discharging : Discharge within the limits of -20° to 60° temperature.

Battery Energy Rate : The cell capacity at shipment is 30% of the full capacity.

Disposal : Dispose in accordance with applicable federal, state and local regulations.



常州上扬光电有限公司 CHANGZHOU SOARING TECHNOLOGY CO., LTD

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Page 4 of 6

Warning

Fire or explosion if incorrectly installed, shorted, disassembled, hated or

disposed of in fire.

SECTION 8 Exposure controls/personal protection

Engineering controls

Keep away from heat and open flame. Store in a cool, dry place.

Personal Protection

Respirator

Not required during normal operations. SCBA required in the event of a fire.

Eye/face protection

Not required beyond safety practices of employer.

Gloves

Not required for handling of cells.

Foot protection

Steel toed shoes recommended for large container handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

State Solid
Odor N/A
PH N/A
Vapor pressure N/A
Vapor density N/A
Boiling point N/A

Solubility in water Insoluble

Specific gravity N/A
Density N/A

Flashpoint Not available

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY

None

INCOMPATIBILITIES

None during normal operation. Avoid exposure to heat, open flame, and corrosives.



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Page 5 of 6

HAZARDOUS DECOMPOSITION PRODUCTS

None during normal operating conditions. If cells are opened, hydrogen fluoride and carbon monoxide may be released.

CONDITIONS TO AVOID

Avoid exposure to heat and open flame. Do not puncture, crush or incinerate

SECTION 11 TOXICOLOGICAL INFORMATION

This product does not elicit toxicological properties during routine handling and use.

Sensitization	Teratogenicity	Reproductive toxicity	Acute toxicity
NO	NO	NO	NO

If the batteries are opened through misuse or damage, discard immediately. Internal components of cell are irritants and sensitizers.

SECTION 12 ECOLOGICAL INFORMATION

Some materials within the cell are bioaccumulative. Under normal conditions, these materials are contained and pose no risk to persons or the surrounding environment.

SECTION 13 DISPOSAL CONSIDERATIONS

CALIFORNIA REGULATED DEBRIS

RCRA Waste Code: Non-regulated

Dispose of according to all federal, state, and local regulations.

SECTION 14 Transport information

The Lithium Ion batteries are considered to be "Rechargeable batteries" and meet the requirements of transportation by the U.S. Department of Transportation(DOT), International Civil Aviation Administration(ICAO), International Air Transport Association(IATA) Dangerous Goods Regulations (61th Edition, 2020. Special Provision A88, A99, A154, A164, A181, A182 and Section II or IB of package instruction, 966 or 967 for lithium ion batteries for UN 3481, 965 for lithium ion batteries for UN 3480) and belong to non-dangerous goods and meets all requirements under UN Manual of Tests and Criteria Part III, subsection 38.3.



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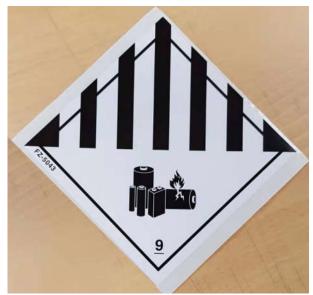
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Page 6 of 6

The International Maritime Dangerous Goods (IMDG) Code - 2018 Edition (Incorporating Amendment 39-18) with special provision 188 & 230.





SECTION 15 REGULATORY INFORMATION

Regulations specifically applicable to the product :

- The transport of the lithium batteries is regulated by the United Nations, "Model Regulations on Transport of Dangerous Goods Special Provisions A188".
- Lithium batteries are subject to shipping requirements exceptions under 49 CFR 173.185(paragraph c).
- Shipping of Lithium batteries in aircrafts are regulated by the International Civil Aviation Organization (ICAO) and the International Air Transport Association (IATA) requirements in Special Provision "A48".
- Shipping of lithium batteries on sea are regulated the International Maritime Dangerous Goods (IMDG) requirements.
- The internal component (thionyl chloride) is non-hazardous and under the criteria of the Federal OHSA Hazard Communication Standard 29 CFR 190.1200.

SECTION 16 SPECIAL PROTECTION INFORMATION

Respiratory Protection : Not necessary under normal use.

Ventilation : Not necessary under normal use.

Eye Protection : Not necessary under normal use.

Protective Gloves : Not necessary under normal use.



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Page 1 of 6

MATERIAL SAFETY DATA SHEET

IDENTITY Product Category : Rechargeable Lithium-ion Battery

Model Name : V4
Brand : ring

Nominal Capacity : 6040 mAh
Nominal Voltage : 3.65V

Watt-hour : 22.046 W/hr

Chemical System : Lithium Cobaltate / Carbon

Desigened for Recharge : \square Yes \square No

SECTION 1 MANUFACTURER'S INFORMATION

Manufacturer's Name : CHANGZHOU SOARING TECHNOLOGY CO., LTD

Supplier's Name : Welltech Energy Inc.

Supplier's Address : 2F, No.181, An Mei St., Nei Hu District, Taipei City 11484, Taiwan

Information Telephone : 886-2-2790-7958 Emergency Telephone : 886-2-2790-7959

Date Prepared : 2019/12/18

SECTION 2 HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY

Skin contact, Skin absorption, Eye contact, Inhalation, and Ingestion: NO

SYMPTOMS OF EXPOSURE

Skin contact: No effect under routine handling and use. Skin absorption: No effect under routine handling and use.

Eye contact: No effect under routine handling and use. Inhalation: No effect under routine handling and use.

REPORTED AS CARCINOGEN: Not applicable

SECTION 3 MATERIAL AND INGREDIENTS INFORMATION

Battery Cell:

Hazardous Ingredients	%	CAS number
Aluminum Foil	2-10	7429-90-5



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Page	2	of	6

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Metal Oxide (propietary)	20-50	
Polyvinylidene Fluoride (PVDF)	<5	24937-79-9
Copper Foil	2-10	7440-50-8
Carbon (proprietary)	10-30	7440-44-0
Electrolyte (proprietary)	10-20	
Stainless steel, Nickel and inert materials	Remainder	N/A

Circuit Module:

HAZARDOUS INGREDIENTS	%	CAS number
Lead	<0.1	7439-92-1
Mercury	0	7439-97-6
Chromium	0	7440-47-3
Cadmium	0	7440-43-9

Plastic Parts:

HAZARDOUS INGREDIENTS	%	CAS number
Lead	<0.1	7439-92-1
Nickel	< 0.01	7440-02-0
CFCs	0	75-69-4
Polyclorinated Biphenyls	0	1336-36-3

SECTION 4 FIRST-AID MEASURES

Internal cell materials of an opened battery cell

· Inhalation:

Make the victim blow his/her nose, gargle. Seek medical attention if necessary.

Remove contaminated clothes and shoes immediately. Wash the adhere or contact region with soap and plenty of water immediately.

· Eye contact:

Immediately flush eyes with water continuously for at least 15 minutes. Seek medical attention immediately.

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Page 3 of 6

A battery cell and internal cell materials of an opened battery cell

Ingestion :

Induce vomiting. When it is impossible or the feeling is not well after vomiting, seek medical attention.

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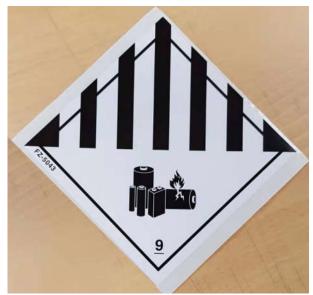
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