

化学品安全技术说明书 Material Safety Data Sheet (MSDS)

报告编号(Report No.):AGC2015012900310-2

日期(Date): 2015/02/05

页码(Page) 1 of 12

申请公司: 泉州劲鑫电子有限公司

Applicant: Quanzhou Jintion Electronics Co., Ltd.

地址: 福建省泉州市鲤城区南环路江南高新电子园劲鑫大厦

Address: Jintion Building, Jiangnang Park, Nanghuan Road, Licheng, Quanzhou City, Fujian Province, China

测试公司: 深圳市鑫宇环检测有限公司

Testing Company: Attestation of Global Compliance (shenzhen)Co., Ltd.

测试地址: 深圳市福田区上梅林梅华路 171 号 2 栋

Testing Address: Unit 2, Meihua Road 171, Shangmeilin Street, Futian District, Shenzhen City, China

样品信息(Report on the submitted samples said to be):

样品名称(Sample Name): 镍镉电池(Nickel-cadmium battery)

样品型号(Sample Model): Ni-Cd电池(Ni-Cd battery)

批号(Batch No.): JT02

化学品用途(Chemical use): 电子产品(Electronic products)

样品接收日期(Sample Receiving Date): 2015/01/29

测试日期(Testing Period): 2015/01/29-2015/02/05

要求(Request): 依据客户要求, 对提交样品编辑化学品安全技术说明书(MSDS)。 (As specified by the client, to edit Material Safety Data Sheet (MSDS) for the submitted sample.)

审核人
Checked by

Free

Free Wang



AGC 授权签字人
Signed for and on behalf of AGC

David

David Wang

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报告编号(Report No.):AGC2015012900310-2

日期(Date): 2015/02/05

页码(Page) 2 of 12

第一部分(Section 1): 物质的识别 Production Identification

产品名称(Product Name): 镍镉电池(Nickel-cadmium battery)

公司名称: 泉州劲鑫电子有限公司

Company Name: Quanzhou Jintion Electronics Co., Ltd.

联系地址: 福建省泉州市鲤城区南环路江南高新电子园劲鑫大厦

Contact Address: Jintion Building, Jiangnan Park, Nanghuan Road, Licheng, Quanzhou City, Fujian Province, China

紧急联系(Emergency): 联系人(Contact Person): 陈文明 (Wenming Chen)

电话(Tel): 0595-22136869

邮箱(Email): battery@jintion.com

传真(Fax): 0595-22578339

邮编(Postcode):362000

第二部分(Section 2):材料组成信息 Composition and Information on Ingredients

纯物质 Pure 混合物 Admixture

组成 Composition:

化学名称 Chemical Name	分子式 Molecular Formula	百分比 In % by weight	CAS 号 CAS No.	EC 号 EC No.
氢氧化镍 Nickel(II) Hydroxide	Ni(OH) ₂	25.5%~35.1%	12054-48-7	235-008-5
氧化亚钴 Cobalt oxide	CoO	0.7%~1.8%	1307-96-6	215-154-6
氧化镉 Cadmium oxide	CdO	20.5%~30.5%	1306-19-0	215-146-2
铁 Iron	Fe	25.0%~32.5%	7439-89-6	231-096-4
氢氧化钾 Potassium hydroxide	KOH	3.2%~5.0%	1310-58-3	215-181-3
碳(石墨)Graphite	C	5.0%~7.0%	7782-42-5	231-955-3
水 Water	H ₂ O	8.1%~12.0%	7732-18-5	215-185-5
其他 Other(s)	-	1.0%~2.0%	-	-

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Material Safety Data Sheet

(MSDS)

报告编号(Report No.):AGC2015012900310-2

日期(Date): 2015/02/05

页码(Page) 3 of 12

备注Remark: CAS: 化学文摘登陆号。(Chemical Abstract Service Registry Number.)

EC: 欧洲现有商业化学品目录。

(European Inventory of Existing Commercial chemical Substances.)

“-”: 无资料。(No information.)

第三部分(Section 3):危险识别 Hazards Identification

危险等级: 正常使用情况下没有危险。拆除, 打开或分解镍镉电池, 其材料中包含的成份可能有危害。

入侵途径:

皮肤接触: 皮肤接触电解液可能引起皮肤过敏。

眼睛接触: 与有机溶液接触对眼睛有严重的危害风险。

吸入: /

摄入: 吞咽是有危害的。

健康危害: /

环境危害: 电池的组成物质对环境有危害。

爆燃危害: 机械撞击的火焰、短路和高温条件情况下, 电池会起火爆炸。

No dangerous with normal use. Dismantle, open or shred Nickel-Cadmium Battery the ingredients contained within or their ingredients products could be harmful.

Fatalness grade: In accordance with Regulation (EC) No 1272/2008, the sample is divided into dangerous article.

Invasion route:

Skin touch: May cause allergy by skin contact with the battery electrolyte.

Eyes touch: Risk of serious damage to the eyes when it contact with organic solution.

Inhalation: /

Ingestion: Harmful if swallowed.

Health hazards: /

Environment hazards: The components of the battery are harmful to the environment.

Burn & burst danger: It will explode, flame when it machine impinges, short-circuits and in high-temperature situation.

第四部分(Section 4):急救措施 First Aid Measures

在正常情况下使用, 电池是密封。化学材料存储在一个密封的金属外壳, 此种设计使电池承受和抵御正常情的温度和压力。

皮肤接触: 脱去被污染的衣物, 并用大量流动的水清洗皮肤至少15分钟。如果有刺激、受伤或疼痛症状, 请立即就医。

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Material Safety Data Sheet

(MSDS)

报告编号(Report No.): AGC2015012900310-2

日期(Date): 2015/02/05

页码(Page) 4 of 12

眼睛接触: 翻起眼睑, 用流动的水清洗至少30分钟。立即就医。

吸入: 将患者立即从暴露现场转移至空气清新处, 保持其呼吸道顺畅。如果有可能使用氧气袋。立即就医。

吞咽: 至少喝2杯牛奶。如果患者失去意识请勿催吐, 立即就医。

Under normal conditions of use, the battery is hermetically sealed. chemical materials are stored in a hermetically sealed metal case designed to withstand temperatures.

Skin touch: Remove any contaminated clothing and flush exposed skin with plenty of running water for at least 15 minutes. If irritation, injury or pain persists, seek medical attention.

Eyes touch: Lifting the upper and lower eyelids, flush the eyes with running water for at least 30 minutes. Seek immediate medical attention.

Inhalation: Remove the patient from exposure and move to fresh air immediately. Keep the respiratory tract smooth. Use oxygen if available. Get medical aid.

Ingestion: Give at least 2 glasses of milk. Induce vomiting unless patient is unconscious. Seek immediate medical attention.

第五部分(Section 5): 消防措施 Fire Fighting Measure

危险特性: 电池接触火源可能发生爆炸并释放有害的分解产物。当机械撞击产生火焰, 短路或高温条件情况下, 也会发生爆炸。与氧化剂接触, 电池会与氧化剂反应。

有害燃烧产物: 一氧化碳、二氧化碳、金属氧化物等。

消防方法: 所有人员必须佩戴过滤式防毒面具(面罩)或独立的呼吸器, 穿戴可防御火和有毒气体的消防防护服。尽量在上风处灭火, 尽可能将容器移至空旷处。

灭火剂: 泡沫, 干粉, 二氧化碳, 砂土。

Danger characteristic: Batteries may burst and release hazardous decomposition products when exposed to a fire situation. It will explode, flame when it machine impinges, short-circuits and in high-temperature situation. It will react with oxidizer.

Hazardous combustion products: Carbon monoxide, carbon dioxide, metal oxide etc.

Fire-Fighting method: The staff must equip with filter mask (full mask) or isolated breathing apparatus. The staff must wear the clothes which can defense the fire and the toxic gas. Put out the fire in the upwind direction. Remove the container to the open space as soon as possible.

Media: foam, powder, CO₂, sandy clay.

第六部分(Section 6): 泄露应急措施 Accidental Release Measure

电池内部材料的泄露, 如电池电解液, 依据如下方法小心处理:

人体预防: 穿戴防护设备(护目镜和防护手套)转移溢出材料。尽可能的避免接触和不要吸入气体。

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Material Safety Data Sheet

(MSDS)

报告编号(Report No.):AGC2015012900310-2

日期(Date): 2015/02/05

页码(Page) 5 of 12

环境预防: 禁止排放到环境中。

清理方法: 把溢出物质收集于容器中。泄露区域用干的布进行清洁。

二次危害预防: 避免扩散。收集的材料请勿靠近火源。

Spilled internal cell materials, such as electrolyte leaked from a battery cell, are carefully dealt with according to the followings.

Precautions for human body: Remove spilled materials with protective equipment (protective glasses and protective gloves). Do not inhale the gas as much as possible. Moreover, avoid touching with as much as possible.

Environmental precautions: Do not throw out into the environment.

Method of cleaning up: The spilled solids are put into a container. The leaked place is wiped off with dry cloth.

Prevention of secondary hazards: avoid re-scattering. Do not bring the collected materials close to fire

第七部分(Section 7): 操作与存储 Handling And Storage

操作

技术措施:

使用者暴露预防: 正常使用下不需要。

火灾和爆炸预防: 正常使用下不需要。远离火源和热源

操作安全预防: 不要破坏或拆除外部壳套。

安全操作注意事项: 电池严禁拆开、破坏或焚烧, 因为电池密封的材料可能泄露、破裂并释放到环境中。严禁将电池扔到火中或暴露于高温环境中。电池不可浸泡在水或海水中。严禁与强氧化剂放置在一起。严禁强烈的机械撞击和抛掷。不要拆卸或使其变形。如需装料, 请用专用的装料机进行装料

存储

技术措施:

存储条件: 避免机械或电气滥用。存储于阴凉、干燥、通风良好并且温度变化较小的地方。避免高温条件。电池应远离发热设备, 不要将电池长时间的暴露在直射的阳光下。

禁忌物: 导电材料、水、海水、强氧化剂和强酸。

包装材料: 建议使用绝缘材料或被证明耐用的材料

Handling

Technical measures:

Prevention of user exposure: Not necessary under normal use.

Prevention of fire and explosion: Not necessary under normal use. Keep away from fire and heating sources.

Precaution for safe handling: Do not damage or remove the external tube.

Specific safe handling advice: The batteries should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container. Never throw out battery cells in a fire or expose to high temperatures. Do not soak battery cells in water or seawater. Do not

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报告编号(Report No.): AGC2015012900310-2

日期(Date): 2015/02/05

页码(Page) 6 of 12

expose to strong oxidizers. Do not give a strong mechanical shock or fling. Never disassemble or deform. In the case of charging, use only dedicated charger.

Storage

Technical measures:

Storage conditions: 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.

Incompatible products: Conductive materials, water, seawater, strong oxidizers and strong acids.

Packing material: Insulative and tear proof materials are recommended.

第八部分(Section 8):接触控制与个人防护 Exposure Controls /Personal Protection

呼吸系统保护: 工作场所保持良好的通风, 工作时需佩戴合格的口罩或面罩。

眼睛保护: 护目镜, 装配合格和安全的淋浴或冲洗眼睛设备。

身体保护: 穿工作服, 注意保护裸露的皮肤。

手保护: 穿戴手套。

其他保护: 工作场所禁止吸烟、饮食。保持良好的卫生习惯。

Respiratory protection: The work place keep well ventilated, wear qualified mask or face mask at work time.

Eyes protection: Goggles, equipped available and safety shower and wash eyes equipment.

Body protection: Wear work clothes, pay attention to protect bare skin.

Hands protection: Wear gloves

Other Protections: No smoking, dining and drinking water in the workplace. Keep good habit of hygiene.

第九部分(Section 9):理化性质 Physical And Chemical Properties

形态

物理状态: 固体

形状: 圆柱形

颜色: 银色(金属外壳)

气味: /

pH: 电解液呈强碱性

特定温度或温度范围对电池物理形态的变化: 对于混合物产品没有有价值的信息。

沸点: 500°C。

爆炸性能: 机械撞击的火焰、短路和高温条件下, 电池会起火爆炸。

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Material Safety Data Sheet

(MSDS)

报告编号(Report No.): AGC2015012900310-2

日期(Date): 2015/02/05

页码(Page) 7 of 12

密度: 无相关资料。

溶解度: 不溶于水。

Appearance

Physical state: Solid

Form: Cylindrical

Color: Silver (metal case)

Odor: /

pH: Electrolyte strong alkalinity

Specific temperatures/temperature ranges at which changes in physical state occur: There is no useful information for the product as a mixture.

Boiling point: 500°C

Explosion properties: It will explode, flame when it machine impinges, short-circuits and in high-temperature situation.

Density: No information.

Solubility: Insoluble in water.

第十部分(Section 10):稳定性和反应性 Stability And Reactivity

稳定性: 在正常温度和压力下稳定

禁忌物: 强氧化剂、酸、碱

避免条件: 高温热源、火源

燃烧产物: 一氧化碳、二氧化碳、碳氢烃类分解物、有毒烟雾

Stability: Stable under normal temperature and pressure.

Distribution of Ban: Strong oxidizer, acid, alkali.

Conditions to Avoid: High temperature heat source, fire source

Decomposition Products: CO, CO₂, Hydrocarbon hydrocarbon decomposition, toxic smoke

第十一部分(Section 11): 毒理学信息 Toxicological Information

关于产品本身现无相关数据。电池内部材料信息如下:

氧化亚钴- CoO

急性毒性: 无相关数据。参考钴: LDLO,豚鼠口服20 mg/kg。

局部影响: 不可知。

致敏作用: 对呼吸系统和神经系统可能有刺激作用。

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日期(Date): 2015/02/05

页码(Page) 8 of 12

慢性毒性/长期毒性: 长期吸入钴的粉尘或蒸汽, 可能导致严重的呼吸器官疾病。过敏或有过敏史的人可能引起皮肤反应或肺病。

皮肤腐蚀性: 虽然比较少见, 但可能引起皮疹、红斑等过敏反应。

石墨

急性毒性: 不可知

局部影响: 进入眼睛, 对眼睛有刺激作用, 可能导致结膜炎、角膜增厚或浮肿的眼睑炎症。

慢性毒性/长期毒性: 长期吸入高浓度的石墨粉尘颗粒, 可能导致肺部疾病或支气管疾病。

致癌性: 研究表明, 石墨不是致癌物质和具有自然毒性的物质。

铜

急性毒性: 普通大小的颗粒60~100mg可导致肠道絮乱并伴有反胃和炎症。TDLO, 兔子皮下注射375 mg/kg。

局部影响: 粗颗粒会刺激鼻子和气管。当进入眼睛时, 有红眼疼痛症状。

致敏作用: 长期或反复的皮肤接触可能导致皮肤过敏。

生殖影响: TDLO, 小鼠口服152 mg/kg。

有机电解液

急性毒性: 50LD, 小鼠口服2,000 mg/kg或更多。

皮肤刺激: 兔子-平和

眼睛刺激: 兔子-非常严重

There is no available data on the product itself. The information of the internal cell material is as follows.

Lithium cobalt Oxide- LiCoO_2

Acute toxicity: No applicable data. Reference cobalt: LDLO, oral-Guinea pig 20mg/kg

Local effects: Unknown.

Sensitization: The nervous system of respiratory organs may be stimulated sensitively.

Chronic toxicity/Long term toxicity: By the long-term inhalation of coarse particulate or vapor of cobalt, it is possible to cause the serious respiratory-organs disease. Skin reaction or a lung disease for allergic or hypersensitive person may be caused.

Skin causticity: Although it is very rare, the rash of the skin and allergic erythema may result.

Graphite

Acute toxicity: Unknown

Local effects: When it goes into one's eyes, it stimulates one's eyes; conjunctivitis, thickening of corneal epithelium or edematous inflammation palpebra may be caused.

Chronic toxicity/Long term toxicity: Since the long-term inhalation of high levels of graphite coarse particulate may become a cause of a lung disease or a tracheal disease.

Carcinogenicity: Graphite is not recognized as a cause of cancer by research organizations and natural toxic substance research organizations of cancer.

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日期(Date): 2015/02/05

页码(Page) 9 of 12

Copper

Acute toxicity: 60-100mg sized coarse particulate causes a gastrointestinal disturbance with nausea and inflammation. TDLO, hypodermic-Rabbit 375mg/kg

Local effects: Coarse particulate stimulates a nose and a tracheal. When it goes into one's eyes, the symptom of the reddening and the pain is caused.

Sensitization: Sensitization of the skin may be caused by long-term or repetitive contact.

Reproductive effects: TDLO, oral-Rat 152mg/kg

Organic Electrolyte

Acute toxicity: 50 LD, oral-Rat 2,000mg/kg or more

Local effects: Unknown.

Skin irritation : Rabbit-Mild.

Eye irritation : Rabbit-Very severe.

第十二部分(Section 12):生态学信息 Ecological Information

对该产品的生态学信息无相关资料。

本产品不允许排入下水道和/或河流。

流动性: 无相关资料。

持久性和降解性: 无相关资料。

潜在生物累积性: 无相关资料。

生态毒性:

对水生物有毒, 可能对水生环境产生长期的不利影响。

No information is available about this product's ecological data.

This product is not allowed to discharge into the sewer or/and rivers.

Mobility: Not available

Persistence and degradability: Not available

Bioaccumulative potential: Not available

Ecotoxicity:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Material Safety Data Sheet

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报告编号(Report No.):AGC2015012900310-2

日期(Date): 2015/02/05

页码(Page) 10 of 12

第十三部分(Section 13):废弃处置 Disposal Considerations

禁止弃置于下水道或水渠。

废物:

依据现有的法规回收或处理废弃物, 尽可能选择有资质的废弃物回收者或公司。

禁止将废弃物直接排入环境中。

污染包装:

完全清空容器, 并保留容器标识。选择有资质的废弃处理承保人。

Do not put into drains or waterways.

Waste:

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

第十四部分(Section 14):运输信息 Transport Information

包装方式: /

运输方式: 空运、海运、铁路、公路

运输注意事项: 为防止电池短路, 在运输时请将电池分开, 并用牢固的包装材料进行包装。运输前应先检查包装容器是否完整、密封, 运输过程中要确保容器不泄漏、不坠落、不损坏。运输时应配备相应品种和数量的消防器材及泄漏应急处理设备。严禁与氧化剂、酸等混装混运。运输工具必须彻底清洗, 消毒, 否则不得装运其他物品。运输途中应防曝晒、雨淋, 防高温, 远离火源。

Packaging Method: /

Transport Fashion: By air, sea, rail, highway

Transport Attentions: Separate batteries when transport to prevent short-circuiting. They should be packed in strong packaging for support during transport. Examine whether the package of the containers are integrate and tighten closed before transport. No divulgence, no collapse, no precipitation or no damage during the course of transportation. Corresponding varieties and number of fire equipment and spill contingency processing equipment should be equipped during the course of transportation. Strictly prohibit put the goods together with oxidizer, acid, etc. for transport. The transport instrument must be cleaned and sterilized otherwise it is not allowed to assemble other articles. During transport, the goods should prevent exposure, rain and high temperature. Keep away from fire.

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化学品安全技术说明书

Material Safety Data Sheet

(MSDS)

报告编号(Report No.):AGC2015012900310-2

日期(Date): 2015/02/05

页码(Page) 11 of 12

第十五部分(Section 15): 法规信息 Regulatory Information

法规信息: ISO 11014-2009 化学品用安全资料表 内容和排列顺序章节。

法规(EC) No 1272-2008 物质及混合物分类、标签和包装法规。

Regulatory Information:

ISO 11014-2009 Safety data sheet for chemical products - Content and order of sections.

Regulation (EC) No.1272/2008 Classification, Labeling and Packaging of Substances and Mixtures.

第十六部分(Section 16):其他信息 Other Information

上述信息是基于现有的数据信息,在实际应用过程中,可能出现其他未预料的情况,其相应信息可能需要修改,我方不承担责任,在操作中请根据实际情况做出相应的正确处理。

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof.

Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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日期(Date): 2015/02/05

页码(Page) 12 of 12

样品附图(The photo of the sample)



AGC2015012900310-2

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报告结束

*** End of Report ***

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