



材料安全数据表

Material Safety Data Sheet

Sample name : Cylindrical Li-ion Cell

样品名称 : 圆柱锂离子电芯

Consignor : Jiangxi Jiuding- Power New
Energy Technology Co., Ltd.

委托单位 : 江西九鼎动力新能源科技有限公司

江西九鼎动力新能源科技有限公司
Jiangxi Jiuding Power New Energy Technology Co., Ltd

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| 1. Identification of the product and supplier (产品和厂商信息) | |
|---|---|
| 样品名称 Name of goods | 圆柱锂离子电芯 Cylindrical Li-ion Cell |
| 样品型号 Type/Mode | JDDL INR18650P 3.6V, 2200mAh, 7.92Wh |
| 委托单位 Commissioned by | 江西九鼎动力新能源科技有限公司 Jiangxi jiuding-power new energy technology co., LTD. |
| 委托单位地址 Commissioner address | 中国江西省宜春市袁州区彬江镇机电基地工业大道 10 号 No. 10 Industrial Avenue, Mechanical and Electrical Industrial Base, Binjiang Town, Yuanzhou District, Yichun City, Jiangxi, P.R. China |
| 制造商 Manufacturer | 江西九鼎动力新能源科技有限公司 Jiangxi jiuding-power new energy technology co., LTD. |
| 制造商地址 Manufacturer address | 中国江西省宜春市袁州区彬江镇机电基地工业大道 10 号 No. 10 Industrial Avenue, Mechanical and Electrical Industrial Base, Binjiang Town, Yuanzhou District, Yichun City, Jiangxi, P.R. China |
| 鉴定依据 Inspection according to | EEC Directive 93/112/EC 联合国《关于危险品货物运输的建议书》 UN"Recommendations on the TRANSPORT OF DANGEROUS GOODS" |
| 紧急联系电话 Emergency telephone call | +86-0795-7203925 |
| 接样日期/Receiving date:2019-1-6 | 签发日期/Issue date:2019-1-8 |

Tested by:

主检:

Reviewed by:

审核:

Approved by:

批准:

江西九鼎动力新能源科技有限公司

Jiangxi jiuding-power new energy technology co., LTD.





2. Hazards Identification (主要危险性鉴定)

| | |
|---------------------------|---|
| 爆炸危险性 Explosive risk | 该物品不属于爆炸危险品 This article does not belong to the explosion dangerous goods |
| 易燃危险性 Flammable risk | 该物品不属于易燃危险品 This article does not belong to the flammable material |
| 氧化危险性 Oxidation risk | 该物品不属于氧化危险品 This article does not belong to the oxidation of dangerous goods |
| 毒害危险性 Toxic risk | 该物品不属于毒害危险品 This article does not belong to the toxic dangerous goods |
| 放射危险性 Radioactive risk | 该物品不属于放射危险品 This article does not belong to the radiation of dangerous goods |
| 腐蚀危险性 Mordant risk | 该物品不属于腐蚀危险品 This article does not belong to the corrosion of dangerous goods |
| 其他危险性 other risk | 该物品为圆柱锂离子电芯，瓦时率为 7.92Wh This article is Cylindrical Li-ion Cell, Watt hour rate 7.92Wh |

3. Composition/Information on Ingredient (成分/组成信息)

| Hazardous Ingredients (Chemical Name) | Concentration or concentration ranges (%) | CAS Number |
|---------------------------------------|---|------------|
| Lithium Cobalt | 54% - 62% | 12190-79-3 |
| Ethylene carbonate | 18% - 28% | 96-49-1 |
| Graphite | 5% - 10% | 7782-42-5 |
| Copper | 2% - 10% | 7440-50-8 |
| Aluminum | 1% - 10% | 7429-90-5 |
| Phosphate(1-), | 6% - 12% | 21324-40-3 |





4. First aid measures (急救措施)

Eye

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin

Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.

Inhalation

Remove from exposure and move to fresh air immediately. Use oxygen if available.

Ingestion

Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.

5. Fire-fighting measures (消防措施)

Flash Point: N/A.

Auto-Ignition Temperature: N/A.

Extinguishing Media: Water, CO₂.

Special Fire-Fighting Procedures

Self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

Cell may vent when subjected to excessive heat-exposing battery contents.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide, lithium oxide fumes.

6. Accidental release measures (泄漏应急处理)

Steps to be Taken in case Material is Released or Spilled

If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the battery to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

Waste Disposal Method

It is recommended to discharge the battery to the end, to use up the metal lithium inside the battery, and to bury the discharged battery in soil.





7. Handling and storage (操作处置和储存)

The battery 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.

Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire. Do not crush or puncture the battery, or immerse in liquids.

Precautions to be taken in handling and storing

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.

Other Precautions

The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

8. Exposure controls/personal protection (接触控制/个人防护)

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.

Ventilation

Not necessary under conditions of normal use.

Other Protective Clothing or Equipment

Not necessary under conditions of normal use.

Personal Protection is recommended for venting battery

Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields.

9. Physical and chemical properties (物理和化学特性)

Appearance: Cylinder shape

Ref. No.: ATSU171007611

Odour: If leaking, smells of medical ether.

pH: Not applicable as supplied.

Flash Point: Not applicable unless individual components exposed.

Flammability: Not applicable unless individual components exposed.

Relative density: Not applicable unless individual components exposed.

Solubility (water): Not applicable unless individual components exposed.

Solubility (other): Not applicable unless individual components exposed.





10. Stability and reactivity (稳定性和反应活性)

Stability: Product is stable under conditions described in Section 7

Conditions to avoid: Heat above 70°C or incinerate. Deform. Mutilate. Crush. Disassemble. Overcharge. Short circuit. Expose over a long period to humid conditions.

Materials to avoid: Oxidising agents, alkalis, water.

Hazardous Decomposition Products: Toxic Fumes, and may form peroxides.

Hazardous Polymerization: N/A.

If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalies, halogenated hydrocarbons.

11. Toxicological information (毒理性资料)

Signs & symptoms: None, unless battery ruptures.

In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.

Inhalation: Lung irritant.

Skin contact: Skin irritant

Eye contact: Eye irritant

Ingestion: Poisoning if swallowed

Medical conditions generally aggravated by exposure: In the event of exposure to internal contents, moderate to severe irritation, burning and dryness of the skin may occur, Target organs nerves, liver and kidneys.

12. Ecological information (生态学资料)

Mammalian effects: None known at present.

Eco-toxicity: None known at present.

Bioaccumulation potential: Slowly Bio-degradable.

Environmental fate: None known environmental hazards at present.

13. Disposal consideration (废弃处置)

Do not incinerate, or subject cells to temperature in excess of 70°C, Such abuse can result in loss of seal leakage, and/or cell explosion, Dispose of in accordance with appropriate local regulations.





14. Transport information (运输信息)

Label for conveyance:Lithium Battery Label.

UN Number:UN3480 or UN3481

Packing Group:N/A

Ems No:4.1-06

Marine pollutant:No

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

Hazard Classification:The goods shall be complied with the requirements of Section II (or Section IB) of Packing Instructions 965-967 of 59th DGR Manual of IATA (2018 edition),including the passing of the UN38.3 TEST.And also complies with the Special Provision 188 and 230 of IMDG CODE (Amdf.38-16) 2016Edition.

15. Regulation information (法规信息)

Law information

《Dangerous Goods Regulations》

《Recommendations on the Transport Dangerous Goods Model Regulations》

《International Maritime Dangerous Goods》

《Technical Instructions for the Safe Transport of Dangerous Goods》

《Occupational Safety and Health Act》 (OSHA)

《Tosic Substance Control Act》 (TSCA)

《Consumer Product Safety Act》 (CPSA)

《Federal Environmental Pollution Control Act》 (FEPCA)

《The Oil Pollution Act》 (OPA)

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

《Resource Conservation and Recovery Act》 (RCRA)

《Safety Drinking Water Act》 (CWA)

《California Proposition 65》

《Code of Federal Regulations》 (CFR)

In accordance with all Federal,State and local laws.

16. Other information (其他信息)

This information is not effective to all the batteries manufactured by Jiangxi jiuding-Power New Energy Technology co., LTD. This information comes from reliable sources,but no warranty is made to the completeness and accuracy of information contained, Doesn't assume responsibility for any damage or loss because of misuse of batteries.User's should grasp the correct use method and be responsible for the use of batteries.

江西九鼎动力新能源科技有限公司

Jiangxi jiuding-power new energy technology co., LTD



由 扫描全能王 扫描创建