

# 材料安全数据表

## Material Safety Data Sheet

样品名称: 镍镉电池

Name of Sample: Nickel Cadmium Battery

委托单位: 江门市锦业华科技有限公司

Commissioner: JYH TECHNOLOGY CO.,LTD.

威凯检测技术有限公司  
Vkan Certification & Testing Co., Ltd.



## 材料安全数据表

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1. 化学品及企业标识 Chemical product and company identificaton	
样品名称 Name of Sample	镍镉电池 Nickel Cadmium Battery
样品型号 Type/Mode	SC1800 1800mAh 1.2V
委托单位 Commissioned by	江门市锦业华科技有限公司 JYH TECHNOLOGY CO.,LTD..
委托单位地址 Commissioner address	广东省江门市江海区邦民路 12 号 NO. 12 BANGMIN ROAD, JIANGHAI DISTRICT, JIANGMEN CITY , GUANGDONG PROVINCE
生产单位 Manufacturer	江门市锦业华科技有限公司 JYH TECHNOLOGY CO.,LTD..
生产单位地址 Manufacturer address	广东省江门市江海区邦民路 12 号 NO. 12 BANGMIN ROAD, JIANGHAI DISTRICT, JIANGMEN CITY , GUANGDONG PROVINCE
鉴定依据 Inspection according to	联合国《关于危险品货物运输的建议书》 20 版 UN "Recommendations on the TRANSPORT OF DANGEROUS GOODS" ST/SG/AC.10/1/Rev.20 国际航空运输协会《危险品运输规则》第 59 版 IATA Dangerous Goods Regulations 59 <sup>th</sup> Edition 国际海运危险货物运输规则 2016 版 IMDG CODE (Amdt.38-16) 2016 Edition
应急电话 Emergency telephone call	+86-750-3808313
-	接样日期: 2018-01-03 Receiving date: 签发日期: 2018.1.11 Date of Issue: 

Approved by:  
批准:Reviewed by:  
审核:Tested by:  
主检:

2. 成分/组成信息 Composition information			
化学成分 Chemical Composition	化学式 Chemical Formula	CAS 号 CAS No.	重量百分比 Weight (%)
镉 Cadmium	Cd	7440-43-9	11-28
氢氧化镉 Cadmium hydroxide	Cd(OH) <sub>2</sub>	21041-95-2	11-28
镍（粉末） Nickel (powder)	Ni	7440-02-0	4-9
氢氧化镍 Nickel hydroxide	Ni(OH) <sub>2</sub>	12054-48-7	12-20
氢氧化钾 Potassium hydroxide	KOH	1310-58-3	<3
尼龙 Nylon	-	24937-16-4	<2
钢 Steel	Fe	12597-68-1	11-14

电池的成分改变是由充放电状态引起的。

Concentrations vary depending on the state of charge or discharge.

注意：电池不可打开外壳或置于高温，在某些环境下暴露于其中一些组分将会产生危害。

NOTE: The battery should not be opened or exposed to heat because exposure to some ingredients contained in battery could be harmful under some circumstances.

### 3. 危险性概述 Hazards identification

本报告所述样品镍镉电池是小型密封式镍镉电池，瓦时率为 2.16Wh。

The sample Nickel Cadmium Battery listed in this report is small sealed nickel metal hydride batteries. Watt hour rate is 2.16Wh.

根据联合国《关于危险品货物运输的建议书》20 版，国际航空运输协会《危险品运输规则》第 59 版，国际海运危险货物运输规则 2016 版的相关规定，该样品不属于危险货物。

According to the relevant provision of UN "Recommendations on the TRANSPORT OF DANGEROUS GOODS" ST/SG/AC.10/1/Rev.20, IATA Dangerous Goods Regulations 59th Edition and IMDG CODE (Amdt.38-16) 2016 Edition, the sample doesn't belong to Dangerous Goods.

### 4. 急救措施 First aid measures

**眼睛：**万一接触，立即用大量的清水冲洗至少 15 分钟，翻起上下眼睑，直到化学的残留物消失为止，迅速就医。

**Eye:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and

lower eyelids. Get medical aid.

**皮肤:** 万一接触, 用大量水冲洗至少 15 分钟, 同时除去污染的衣物和鞋子, 迅速就医。

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

**食入:** 引用两杯牛奶或水。如果当事人仍然清晰可以采取催吐的方法, 并且立即就医。

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

## 5. 消防措施 Fire-fighting measures

**燃点:** 不适用

**Flash Point:** N/A.

**自燃温度:** 不适用

**Auto-Ignition Temperature:** N/A.

**灭火介质:** 大量水 (降温), 二氧化碳

**Extinguishing Media:** Water, CO<sub>2</sub>.

**特殊灭火程序:** 自给式呼吸器

**Special Fire-Fighting Procedures:** Self-contained breathing apparatus.

**异常火灾或爆炸:** 当电芯暴露于过热的环境中时, 安全阀可能会打开并喷出含氢氧化钾的内容物。

### Unusual Fire and Explosion Hazards

Cell may vent when subjected to excessive heat and evaporation of the liquid content of the potassium hydroxide

**燃烧产生的危险物品:** 金属氧化物烟气

**Hazardous Combustion Products:** Metal oxide fumes.

## 6. 泄露应急处理 Accidental release measures

### 为防止电池材料泄露或释放采取的措施

如果电池内部材料泄露, 试验人员应立刻撤离试验区直到烟气消散。将通风设备打开吹散危险性气体。用抹布擦净试验区, 清除溢出的液体, 将泄露电池放进塑料袋中, 然后放进钢制容器。避免皮肤和眼睛接触或吸入有害烟雾。

### Steps to be taken in case of 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 fumes. 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 fumes. Remove spilled liquid with absorbent and incinerate.

### 废弃物处置方法

建议将电池完全放电后, 交给专业部门处理。

### Waste Disposal Method

It is recommended to discharge the battery to the end and pass to professional department for treatment.

## 7. 操作处置和储存 Handling and storage

禁止打开、毁坏或焚烧电池，因为电池有可能在这些处理过程中发生爆炸、破裂或泄露等事故。禁止将电池短路、过充、强制放电或扔入火中。禁止挤压刺穿电池或将电池浸入溶液中。

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.

### 操作处置和储存中的防范措施

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、通风及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。

### Precautions to be taken in handling and storing

Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, where 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.

### 其他要注意的防范措施

拆解、挤压、直接放入火中或高温条件下，电池可能发生爆炸和燃烧。禁止短接或将电池极性反接。

### 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. 接触控制/个人防护 Exposure controls/personal protection

### 呼吸防护:

正常操作条件下不需要做呼吸保护。

### Respiratory Protection

Respiratory Protection is not necessary under conditions of normal use.

### 通风条件

正常使用条件下不需要。

### Ventilation

Not necessary under conditions of normal use.

### 防护手套

正常使用条件下不需要。

### Protective Gloves

Not necessary under conditions of normal use.

### 其他防护服装或设备

正常使用条件下不需要。

### Other Protective Clothing or Equipment

Not necessary under conditions of normal use.

### 电池开阀试验时应做好个人防护

需要准备呼吸防护，防护手套，防护服装和有护边的安全玻璃罩。

### Personal Protection is recommended for venting battery

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

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

外形: 圆柱形

**Appearance:** Cylinder shape

气味: 无。

**Odour:** None.

酸碱度: 正常使用条件下不适用。

**pH:** Not applicable under conditions of normal use.

闪点: 无。

**Flash Point:** NA.

易燃度: 无。

**Flammability:** NA.

溶解性 (水溶性): 正常使用条件下不溶于水。

**Solubility (water):** Insoluble in water under conditions of normal use.

溶解性 (其他): 针对单个组分暴露情况, 其他不适用。

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

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

稳定性: 产品在第 7 节所述的条件下稳定。

**Stability:** Product is stable under conditions described in Section 7.

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。

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

应避免的材料: 氧化剂, 酸, 碱, 水。

**Materials to avoid:** Oxidizing agents, acid, alkalis, water.

危险分解物: 有毒烟雾, 并可能形成过氧化物。

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

聚合危害: 不适用。

**Hazardous Polymerization:** N/A.

如果发生泄露, 避免与强氧化剂, 无机酸, 强碱, 卤代烃接触。

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

## 11. 毒理学资料 Toxicological information

标志及症状: 无, 除非电池破裂。

**Signs & symptoms:** None, unless battery ruptures.

内部物质暴露的情况下, 电解液对眼睛和皮肤有刺激性并产生化学灼伤。

In the event of exposure to internal contents, electrolyte will cause chemical burn and irritating to the eyes and skin.

吸入: 无。

**Inhalation:** NA.

皮肤接触: 对皮肤刺激性。

**Skin contact:** Skin irritant.

**眼睛接触:** 对眼睛有刺激性。

**Eye contact:** Eye irritant

**食入:** 吞下中毒。

**Ingestion:** Poisoning if swallowed..

下列情况下会危险人员身体健康: 如果与电池内部材料直接接触, 皮肤可能会出现干燥、灼烧等轻微或严重的刺激, 并且损坏靶器官的神经, 肝脏和肾脏。

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

## 12. 生态学资料 Ecological information

**对哺乳动物的影响:** 目前未知。

**Mammalian effects:** None known at present.

**生态毒性:** 目前未知。

**Eco-toxicity:** None known at present.

**生物体内积累:** 慢慢地生物降解。

**Bioaccumulation potential:** Slowly Bio-degradable.

**环境危害:** 目前没有已知的环境危害。

**Environmental fate:** None known environmental hazards at present.

## 13. 废弃处置 Disposal consideration

禁止焚烧, 或使电池温度超过 70°C, 这种滥用可导致泄漏和/或电池爆炸。应按照相应的地方性法规处理。

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. 运输信息 Transport information

**运输标签:** 不适用

**Label for conveyance:** Not Applicable.

**UN 编号:** 不适用

**UN Number:** Not Applicable.

**海洋污染物:** 无

**Marine pollutant:** No

本报告所述样品包装中需具有适当的防短路和意外启动的措施。

The samples are properly protected so as to prevent short circuits and accidental activation in the package.

根据国际航空运输协会《危险品运输规则》第 59 版特殊规定 A199 条款, 本报告所述样品可按照普通货物运输, 在空运单中的货物描述中必须包含“非受限制”和特殊规定编号。根据国际海运危险货物运输规则 2016 版, 该货物可按普通货物办理。

According to the IATA Dangerous Goods Regulations 59<sup>th</sup> Edition special provisions A199, the sample list in this report can be transport as normal goods, the words “Not Restricted” and the

Special Provision number must be included in the description of the substance on the Air Waybill. According to IMDG CODE (Amdt.38-16) 2016 Edition the goods can be packaged as ordinary goods.

## 15. 法规信息 Regulation information

法律信息

Law information

《危险物品规则》

《Dangerous Goods Regulations》

《对危险货物运输的有关规定的建议》

《Recommendations on the Transport of Dangerous Goods Model Regulations》

《国际海运危险货物规则》

《International Maritime Dangerous Goods》

《危险品安全运输技术指令》

《Technical Instructions for the Safe Transport of Dangerous Goods》

《危险货物分类和品名编号》

《Classification and code of dangerous goods》

《职业安全卫生法》

《Occupational Safety and Health Act》 (OSHA)

《有毒物质控制法》

《Toxic Substance Control Act》 (TSCA)

《消费产品安全法》

《Consumer Product Safety Act》 (CPSA)

《联邦环境污染控制法》

《Federal Environmental Pollution Control Act》 (FEPCA)

《资源保护及恢复法案》

《Resource Conservation and Recovery Act》 (RCRA)

《安全饮用水法》

《Safety Drinking Water Act》 (CWA)

## 16. 其他信息 Other information

本文件仅对由委托方（江门市锦业华科技有限公司）提供的，并由江门市锦业华科技有限公司生产的镍氢电池（SC1800）有效。该电池的成分信息由委托方提供并承诺其完整性和准确性。用户应仔细阅读此文件，并按照正确的方法使用电池，如因电池使用不当造成的损害或损失，威凯检测技术有限公司（CVC）不承担任何责任。

This file is only effective to the Nickel Metal Hydride Battery (SC1800) provided by commissioner (JYH TECHNOLOGY CO.,LTD.), which manufactured by JYH TECHNOLOGY CO.,LTD.. The commissioner provides the composition information of batteries, and promises its integrity and accuracy. Users should read this file carefully, and use the batteries in correct method. Vkan Certification & Testing Co., Ltd. (CVC) doesn't assume responsibility for any damage or loss because of misuse of batteries.



## 注 意 事 项 Important Notice

1. 本鉴定报告书仅对送检样品有效。

This report is valid for the tested samples only.

2. 申请人提供的样品须与实际运输货物一致。

The goods of transporting must be insure conformity with the testing samples.

3. 本鉴定报告书无检验单位印章、骑封章无效。

This report is invalid without the official stamp of CVC and Paging seal of CVC.

4. 本鉴定报告书无批准人、审核人及鉴定人签名无效。

This report is invalid without the signatures of Ratifier, Reviewer and Testing engineer.

5. 本鉴定报告书涂改无效。

This report is invalid if altered.

6. 本鉴定报告仅原件有效，复印件、传真件及电子版等均无效。

The original copy of this report is the only valid version. Any other versions of this report, whatever it is in form of photocopy, fax, or electronic media, or others, are considered to be invalid.

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