

材料安全数据表

Material Safety Data Sheet

样品名称: 阀控式免维护密封型铅酸蓄电池

Name of Sample: **SEALED VALVE REGULATED LEAD-ACID BATTERY**

委托单位: 广东丰江实业有限公司

Commissioner: **GUANG DONG FULLRIVER INDUSTRY CO.,LTD**

威凯检测技术有限公司
CVC Testing Technology Co., Ltd.

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Material Safety Data Sheet

1. 化学品及企业标识 Chemical product and company identification	
样品名称 Name of Sample	阀控式免维护密封型铅酸蓄电池 SEALED VALVE REGULATED LEAD-ACID BATTERY
样品型号 Type/Mode	DC85-12 12V 85Ah
委托单位 Commissioned by	广东丰江实业有限公司 GUANG DONG FULLRIVER INDUSTRY CO.,LTD
委托单位地址 Commissioner address	广东省鹤山市址山镇龟坑工业区紫云路 99 号 99 ZIYUN ROAD GUIKENG INDUSTRIAL AREA,ZHISHAN TOWN,HESHAN,GUANGDONG CHINA
生产单位 Manufacturer	广东丰江实业有限公司 GUANG DONG FULLRIVER INDUSTRY CO.,LTD
生产单位地址 Manufacturer address	广东省鹤山市址山镇龟坑工业区紫云路 99 号 99 ZIYUN ROAD GUIKENG INDUSTRIAL AREA,ZHISHAN TOWN,HESHAN,GUANGDONG 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"
应急电话 Emergency telephone call	0750-8652771
备注: Remarks:	-
-	接样日期: 2023-12-26 签发日期: 2023-12-29 Receiving date: Date of issue:

Approved by: Huang Kun

HuangKun

Reviewed by: Zhang Siyao

Zhang siyao

Tested by:

Zheng Feida

ZhengFeida

2. 成分/组成信息 Composition information			
材料及组分 Material or ingredient	化学式 Chemical Formula	重量含量 Wt %	CAS 号 CAS No.
铅 lead/lead compounds	Pb	71-73	7439-92-1
锡 Stannum	Sn	<0.5	7440-31-5
钙 Calcium	Ca	<0.1	7440-70-2
稀硫酸 Dilute Sulfuric Acid	H ₂ SO ₄	21-23	7664-93-9

3. 危险性概述 Hazards identification	
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	该物品属于腐蚀危险品 This article belong to the corrosion of dangerous goods

4. 急救措施 First aid measures

若电池外壳破裂，内容物接触人体会产生危害，一旦发生接触，应采取以下应急措施：

If battery shell ruptures, content contact with the human body will produce harm, once contact, should take the following emergency 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.

吸入: 立即从暴露处移至空气清新处, 如果呼吸困难给予输氧, 立即就医。

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

食入: 不要引起呕吐。如果有意识地饮用大量的水/牛奶, 请注意不要用任何东西给无意识的人。并且立即就医。

Ingestion: Do not induce vomiting. If conscious drink large amounts of water/milk Obtain medical attention. Never give anything by mouth to an unconscious person. 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, CO₂.

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: 当电池暴露于过热的环境中时, 安全阀可能会打开。

Unusual Fire and Explosion Hazards

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

燃烧产生的危险物品: 二氧化硫, 铅氧化物烟气, 有毒气体

Hazardous Combustion Products

sulfur dioxide, lead oxide fumes, toxic gas

6. 泄露应急处理 Accidental release measures

防止电池材料泄露或释放采取的措施

如果可能的话, 阻止泄露。避免接触任何溢出的材料。包含溢出、隔离危险区域和封锁入口。用碳酸氢钠、纯碱、石灰或其他中和剂中和。放置电池在合适的容器中进行处理。

Steps to be taken in case Material is Released or Spilled

Stop release, if possible. Avoid contact with any spilled material. Contain spill, isolate hazard area, and deny entry. Neutralize with sodium bicarbonate, soda ash, lime or other neutralizing agent. Place battery in suitable container for disposal.

废弃物处置方法

交给专业处理机构进行处理。

Waste Disposal Method

To professional processing institutions for processing.

个人防范措施

耐酸围裙、靴子和防护服。通风封闭区域。

Personal Precautions

Acid resistant aprons, boots and protective clothing. Ventilate enclosed areas.

7. 操作处置和储存 Handling and storage

操作处置和储存中的防范措施

充电后立即远离火焰。燃烧或过量充电可能产生或释放有毒和有害气体和液体，包括氢气、硫酸雾、二氧化硫、三氧化硫、锑、砷和硫酸。将电池储存在阴凉、干燥、通风良好的区域。在蓄电池或充电过程中，不要短路电池端子，或拆卸排气帽。保护电池免受物理伤害。

Precautions to be taken in handling and storing

Keep away from flames during and immediately after charging. Combustion or overcharging may create or liberate toxic and hazardous gases and liquids including hydrogen, sulfuric acid mist, sulfur dioxide, sulfur trioxide, stibine, arsenic and sulfuric acid. Store batteries in cool, dry, well-ventilated area. Do not short circuit battery terminals, or remove vent caps during storage or recharging. Protect battery from physical damage.

其他要注意的防范措施

良好的个人卫生和工作习惯是要求强制性执行的。禁止在工作场所吃、喝或吸烟。在吃、喝或吸烟前彻底洗手、面部、颈部和手臂。洗净脏衣服再使用。空电池含有有害硫酸残余物。

Other Precautions

GOOD PERSONAL HYGIENE AND WORK PRACTICES ARE MANDATORY. Refrain from eating, drinking or smoking in work areas. Thoroughly wash hands, face, neck, and arms before eating, drinking or smoking. Launder soiled clothing before reuse. Emptied batteries contain hazardous sulfuric acid residue.

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

呼吸防护：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。

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.

通风条件：正常使用条件下不必考虑。

Ventilation: Not necessary under conditions of normal use.

防护手套：正常使用条件下不必考虑。

Protective Gloves: Not necessary under conditions of normal use.

其他防护服装或设备：正常使用条件下不必考虑。

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：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。

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：棱柱形

Appearance: Prismatic

认证编号: GJW2023-3864

Ref, No.: GJW2023-3864

气味: 泄漏时, 有刺激性气味。

Odour: If leaking, smells of medical ether.

酸碱度: 针对单个组分暴露情况, 其他不适用。

pH: Not applicable unless individual components exposed.

闪点: 针对单个组分暴露情况, 其他不适用。

Flash Point: Not applicable unless individual components exposed.

易燃度: 针对单个组分暴露情况, 其他不适用。

Flammability: Not applicable unless individual components exposed.

相对密度: 针对单个组分暴露情况, 其他不适用。

Relative density: Not applicable unless individual components exposed.

溶解性 (水溶性): 针对单个组分暴露情况, 其他不适用。

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

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: 火花, 明火, 保持电池外壳远离强氧化剂。

Materials to avoid: Sparks, Open flames, Keep battery case away from strong oxidizers.

危险分解物: 在充电过程中, 电池内可能会发生爆炸性氢/氧混合物。燃烧可以产生二氧化碳 (CO₂) 和一氧化碳 (CO)。熔融金属产生烟雾和/或蒸气, 可能是有毒或呼吸道刺激物。

Hazardous Decomposition Products: An explosive hydrogen/oxygen mixture within the battery may occur during charging. Combustion can produce carbon dioxide (CO₂) and carbon monoxide (CO). Molten metals produce fumes and/or vapor that may be toxic or respiratory irritants.

聚合危害: 不适用

Hazardous Polymerization : N/A.

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, 蒸汽烟雾可能对眼睛和皮肤的刺激性。

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

and skin.

吸入: 对肺有刺激性。

Inhalation: Lung irritant.

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.

电池中的铅在电池破裂后被人体接触会产生危害。

Lead in batteries will be harmful if it is exposed to human body after battery rupture.

一般: 接触铅的主要途径是吸入或吸入灰尘和烟雾。

GENERAL: The primary routes of exposure to lead are ingestion or inhalation of dust and fumes.

急性的:

摄入/吸入: 暴露于铅及其化合物可能导致头痛、恶心、呕吐、腹痉挛、疲劳、睡眠紊乱、体重减轻、贫血和腿、手臂和关节疼痛。肾损伤，以及贫血，可发生急性暴露。

ACUTE:

INGESTION/INHALATION: Exposure to lead and its compounds may cause headache, nausea, vomiting, abdominal spasms, fatigue, sleep disturbances, weight loss, anemia, and pain in the legs, arms and joints. Kidney damage, as well as anemia, can occur from acute exposure.

慢性的:

吸入或摄入: 长期接触铅及其化合物会产生许多短期暴露的症状，还可引起中枢神经系统损害、胃肠功能紊乱、贫血、和腕下垂。中枢神经系统损伤的症状包括疲劳、头痛、震颤、高血压、幻觉、抽搐和谵妄。肾功能不全和可能的损伤也与慢性铅中毒有关。慢性铅暴露已被认为是男性和女性的生殖能力受损的病原体，但是，目前没有证据蕴涵的孕妇应避免过度暴露。

铅能穿过胎盘屏障和未出生的孩子可能遭受神经损伤或发育问题由于孕妇过量的铅暴露。

CHRONIC:

INHALATION/INGESTION: Prolonged exposure to lead and its compounds may produce many of the symptoms of short-term exposure and may also cause central nervous system damage, gastrointestinal disturbances, anemia, and wrist drop. Symptoms of central nervous system damage include fatigue, headaches, tremors, hypertension, hallucinations, convulsions and delirium. Kidney dysfunction and possible injury has also been associated with chronic lead poisoning. Chronic over-exposure to lead has been implicated as a causative agent for the impairment of male and female reproductive capacity, but there is, at present, no substantiation of the implication. Pregnant women should be protected from excessive exposure.

Lead can cross the placental barrier and unborn children may suffer neurological damage or developmental problems due to excessive lead exposure in pregnant women.

12. 生态学资料 Ecological information

在大多数地表水和地下水中，铅与阴离子如氢氧化物、碳酸盐、硫酸盐和磷酸盐形成化合物，并从水柱中沉淀出来。铅可能发生在沉积物矿物颗粒上吸附的离子或表面涂层，或者可能被带到地表水中的胶体颗粒中。大多数铅强烈地保留在土壤中，导致迁移率很低。铅可通过与含水氧化物或粘土的离子交换或与土壤中的腐殖酸或富里酸螯合而固定。铅（在溶解阶段）是由水生动物和陆生植物和动物生物积累的。

In most surface water and groundwater, lead forms compounds with anions such as hydroxides, carbonates, sulfates, and phosphates and precipitates out of the water column. Lead may occur absorbed ions or surface coatings on sediment mineral particles or may be carried in colloidal particles in surface water. Most lead is strongly retained in soil, resulting in little mobility. Lead may be immobilized by ion exchange with hydrous oxides or clays or by chelation with humic or fulvic acids in the soil. Lead (when in the dissolved phase) is bioaccumulated by plants and

animals, both aquatic and terrestrial

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。

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.

铅酸电池是完全可回收的。将废旧电池全部退回给分销商、制造商或铅冶炼厂进行回收利用。对于中和溢出物，将残留物与吸附剂材料、沙子或泥土一起放置在耐酸容器中，并根据当地酸和铅化合物的规定进行处理。联系当地环境官员处理信息。

Lead-acid batteries are completely recyclable. Return whole scrap batteries to distributor, manufacturer or lead smelter for recycling. For neutralized spills, place residue in acid-resistant containers with sorbent material, sand or earth and dispose of in accordance with local regulations for acid and lead compounds. Contact local environmental officials regarding disposal information.

14. 运输信息 Transport information

运输方式：海运

Transport Fashion: By Sea

运输标签：无

Label for conveyance: N/A

UN 编号：2800

UN Number: 2800

包装等级：不适用

PackagingGroup: N/A

EMS 编号：F-A S-B

EmS No: F-A S-B

海洋污染物：无

Marine pollutant: No

正确装运名称：湿的非溢出蓄电池

Proper Shipping name: Battery, wet, non-spillable

危害分类：货物符合海运危险货物规则（Amdt. 41-22）2022版特殊规定 238，和包装指引PP16的相关要求。

Hazard Classification: The goods comply with special provision 238 of IMDG CODE (Amdt. 41-22) 2022 Edition, and the relevant requirements of the Packaging Instruction PP16.

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)
《石油污染法案》
《The Oil Pollution Act》(OPA)
《超级基金修正案和再授权法案III(302/311/312/313)》
《Superfund Amendments and Reauthorization Act Title III (302/311/312/313)》(SARA)
《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)
《加州 65 提案》
《California Proposition 65》
《美国联邦法规》
《Code of Federal Regulations》(CFR)

根据所有联邦、州和地方法律。

In accordance with all Federal, State and local laws.

16. 其他信息 Other information

本文件仅对由委托方（广东丰江实业有限公司）提供的，并由广东丰江实业有限公司生产的单电芯电池（DC85-12）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不承担任何责任。

This file is only effective to the Single cell batteries (model DC85-12) provided by commissioner (GUANG DONG FULLRIVER INDUSTRY CO.,LTD), which manufactured by GUANG DONG FULLRIVER INDUSTRY 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. CVC Testing Technology Co., Ltd. doesn't assume responsibility for any damage or loss because of misuse of batteries.

注 意 事 项

Important

1. 本报告无检测单位印章无效。
The test report is invalid without the official stamp of CVC.
2. 未经本试验室书面同意，不得部分地复制本报告。
Nobody is allowed to photocopy or partly photocopy this test report without written permission of CVC.
3. 本报告无批准人、审核人及检测人签名无效。
The test report is invalid without the signatures of Ratifier, Reviewer and Testing engineer.
4. 本报告涂改无效。
The test report is invalid if altered.
5. 对检测报告若有异议，应于收到报告之日起十五天内向检测单位提出。
Objections to the test report must be submitted to CVC within 15 days.
6. 本报告仅对送检样品负责。
The test report is valid for the tested samples only.
7. 本报告仅供委托方内部质量控制使用，不对社会公开出具。
This report is only used for internal quality controlling of the client.

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