

报告编号(Report ID): MS1Y5IDG6924027U3

化学品安全技术说明书 MSDS

样品名称及型号 Sample Name & Model	铅酸蓄电池 LFP1236 (12V36Ah) Lead-acid Battery LFP1236 (12V36Ah)
委托单位 Applicant	深圳市一电电池技术有限公司 ShenZhen FirstPower Technology Co., Ltd
单位地址 Address	RM, L, M, N 15/F BUILDING A, FORTUNE PLAZA NO.7002, SHENNAN ROAD SHENZHEN CHINA



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化学品安全技术说明书 Material Safety Data Sheet

GB/T16483-2008 & GB/T17519-2013 & GB 30000.2-29-2013

第一部分 化学品及企业标识 Section 1 - Chemical Product and Company Identification

化学品信息 Chemical Product Identification

样品名称 **Sample Name:** 铅酸蓄电池 Lead-acid Battery

样品型号 **Sample Model:** LFP1236 (12V36Ah)

推荐用途 **Recommended Uses:** 无资料 N/A

限制用途 **Restrictions on Use:** 无资料 N/A

供应商信息 Supplier Information

企业名称 **Company Name:** 惠州市一电电池技术有限公司 HuiZhou FirstPower Technology Co., Ltd.

地址 **Address:** 惠东县白花镇太阳坳工业区一电 Tai Yang Ao Industrial Zone Bai Hua Town, Hui Dong, Huizhou

邮政编码 **Postal Code:** 516369

电话号码 **Phone Number:** 13713903494

应急电话 **Emergency Phone Number:** 13713903494

传真 **FAX:** 0752-8592666

电子邮件地址 **E-mail:** yh@efirstpower.com

第二部分 危险性概述 Section 2 - Hazards Identification

紧急情况概述 Emergency overview: 本产品是一个电池。此物出售时暴露的安全信息已给出。产品的预期用途不会导致化学物质的暴露。如果破裂,存在以下危害 This product is a battery. Intended use of the product should not result in exposure to the chemical substance. In case of rupture the below hazards exist.

GHS 危险性类别 Classification according to GHS:

皮肤腐蚀/刺激 Skin corrosion/irritation (1A至1C)

严重眼损伤/眼刺激 Serious eye damage/eye irritation (1)

特异性靶器官毒性, 反复接触 Specific target organ toxicity, repeated exposure (2)

对水生环境的危害, 长期危害 Hazardous to the aquatic environment, long-term hazard (1)

GHS 标记要素 GHS Label elements:

危害类型象形图

Hazard pictogram(s):



信号词 Signal word: 危险 Danger

危险性说明 Hazard statement(s):

H314 造成严重皮肤灼伤和眼损伤 Causes severe skin burns and eye damage

H318 造成严重眼损伤 Causes serious eye damage

H373 长期或反复接触可能损害器官 May cause damage to organs through prolonged or repeated exposure

H410 对水生生物毒性极大并具有长期持续影响 Very toxic to aquatic life with long lasting effects

防范说明 Precautionary statement(s):

预防措施 Prevention:

P260 不要吸入粉尘和烟雾 Do not breathe dusts or mists.

P264 + P265 作业后彻底清洗皮肤和衣物。勿触碰眼睛 Wash skin and clothing thoroughly after handling. Do not touch eyes.

P280 戴防护手套、穿防护服、戴防护眼罩和戴防护面具 Wear protective gloves, protective clothing, eye protection, face protection.

P273 避免释放到环境中 Avoid release to the environment.

事故响应 Response:

P310 立即呼叫解毒中心或医生 Immediately call a POISON CENTER.

P301 + P330 + P331 如误吞咽: 漱口。不要诱导呕吐 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 如皮肤(或头发)沾染: 立即脱掉所有沾染的衣服。用水清洗皮肤 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 如误吸入: 将受害人转移到空气新鲜处, 保持呼吸舒适的休息姿势 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 如进入眼睛: 用水小心冲洗几分钟。如戴隐形眼镜并可方便地取出, 取出隐形眼镜。继续冲洗 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P363 沾染的衣服清洗后方可重新使用 Wash contaminated clothing before reuse.

P391 收集溢出物 Collect spillage.

安全储存 Storage:

P405 存放处须加锁 Store locked up

废弃处置 Disposal:

P501 将内容物处理到得到批准的废物处理厂 Send contents to approved waste treatment plants

其他危险 Other hazards

物理和化学危险 Physical and chemical hazards: 详细信息见第十部分 See Section 10

健康危害 Human health hazards: 详细信息见第十一部分 See Section 11

环境危害 Environmental hazards: 详细信息见第十二部分 See Section 12

第三部分 成分/组成信息

Section 3 – Composition/Information on Ingredients

化学品性质 **Chemical characterization:** 混合物 Mixture

化学名称 Chemical Composition	CAS No.	EC#	百分含量 Weight (%)
铅 Lead	7439-92-1	231-100-4	72.5
硫酸 Sulfuric acid	7664-93-9	231-639-5	15.0
丙烯腈与丁二烯和苯乙烯的三元共聚物 Acrylonitrile-butadiene- styrene terpolymer	9003-56-9	618-371-8	8.0
三元乙丙橡胶 Ethylene-Propylene-Diene Monomer	---	---	0.05
环氧树脂 Phenolic epoxy resin	---	---	1.5
玻璃纤维 Glass, oxide, chemicals	65997-17-3	266-046-0	1.5

第四部分 急救措施

Section 4 - First Aid Measures

急救 **Description of first aid measures:**

总说明 **General information:** 正常情况下不需要特别的措施 No special measures required.

眼睛接触 **After eye contact:** 张开眼睛在流水下冲洗数分钟, 如果症状仍然持续, 请咨询医生 Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

皮肤接触 **After skin contact:** 脱去污着衣物, 用大量的水清洗, 然后清洗双手。衣物清洗后再使用。如果症状持续, 速就医 Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

吸入 **After inhalation:** 立即将人员移至通风处。如果呼吸困难速进行人工呼吸抢救。如症状持续速就医 Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

食入 **After swallowing:** 禁止催吐。速就医 Do not induce vomiting. Get medical attention.

第五部分 消防措施

Section 5 - Fire Fighting Measures

适用灭火剂Suitable extinguishing media: 轻微火灾: 采用干粉、二氧化碳灭火剂、或水幕灭火。重大火灾: 使用干粉、二氧化碳灭火剂、抗溶泡沫灭火剂或水幕灭火; 在没有危险的情况下, 从事故现场运走盛有此类物质的容器; 拦截回收消防用水留待后续处理, 防止该类物质四散散落 Small Fire: Dry chemical, CO₂ or water spray. Large Fire: Dry chemical, CO₂, alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal; do not scatter the material.

不适用灭火剂Unsuitable extinguishing media: 无可用数据 No data available.

特别危险性Specific Hazards arising from the chemical: 在起火条件下, 电池可能会破裂, 释放出有害的分解产物。有毒: 吸入、吞服或皮肤吸收可引起严重受伤甚至死亡。接触熔融状态的该类物质可导致眼睛和皮肤严重地灼伤。避免皮肤直接接触。吸入或接触该类物质可引起迟发性反应。燃烧可产生刺激性、腐蚀性和/或有毒气体。灭火用水和稀释用水能生成腐蚀性和/或有毒物质, 排放后会污染
Special hazards arising from the substance or mixture Battery may burst and release hazardous decomposition products when exposed to a fire situation. TOXIC; inhalation, ingestion or skin contact with material may cause severe injury or death. Contact with molten substance may cause severe burns to skin and eyes. Avoid any skin contact. Effects of contact or inhalation may be delayed. Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.

特殊灭火方法Special fire extinguishing methods: 无可用数据No data available.

消防员防护装备Specific protective actions for fire-fighters: 穿戴正压自给式呼吸器 (SCBA); 一般的消防员防护服主要提供隔热防护, 仅能提供有限的化学防护Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

第六部分 泄漏应急处理

Section 6 - Accidental Release Measures

作业人员防护措施、防护装备和应急处置程序 Personal precautions, protective equipment and emergency procedures: 穿上保护装备。作为一个紧急预防措施, 液体物质泄露区域四周必须被隔离至少 50m, 固体物质泄露区域四周必须被隔离至少 25m; 撤离无关人员; 停留在上风向; 远离低洼地区; 进入封闭区域前先通风 As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids. Keep unauthorized personnel away. Stay upwind, uphill and/or upstream. Ventilate the area before entry.

环境保护措施 Environmental protection measures: 若无政府许可, 勿将材料排入周围环境 Do not discharge materials into the surrounding environment without government permission.

泄漏化学品的收容、清除方法及所使用的处置材料 Methods and material for containment and cleaning up: 消除所有点火源 (泄露区附近严禁吸烟、点火、火花或其他明火); 不要触碰损坏的容器或者泄露物品, 除非穿戴了合适的防护服; 在确保安全的情况下, 终止泄露; 防止泄漏物进入下水道、地下室或封闭区域; 用干土、干沙或其他不燃物品吸收和覆盖泄漏物, 然后装入容器; 不要让水进入容器 ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not

touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. DO NOT GET WATER INSIDE CONTAINERS.

防止次生灾害的预防措施 Methods and materials for containment and cleaning up:

所有废弃物必须参照联合国, 国家, 地方性法规进行处置 For all waste handling must refer to United Nations, National and Local Regulations for disposal.

有关安全处理的资料请参阅第 7 部分 See Section 7 for information on safe handling.

有关个人防护装备的资料请参阅第 8 部分 See Section 8 for information on personal protection equipment.

有关弃置的资料请参阅第 13 部分 See Section 13 for disposal information.

第七部分 操作处置与储存 Section 7 - Handling and Storage

操作处置 Precautions for safe handling:

防止所有接触, 包括吸入。当有接触危险时, 穿戴防护服。在通风良好的区域使用。防止本品在低洼处汇集 Do not short or install with incorrect polarity. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.

储存 Conditions for safe storage, including any incompatibilities:

储存在一个低温, 干燥, 通风良好的环境。远离热源, 避免长时间阳光照射。未使用时密封容器 Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight. Keep container tightly sealed.

第八部分 接触控制和个体防护 Section 8 - Exposure Controls And Personal Protection

控制参数 Control parameters:

CAS No.	ACGIH	NIOSH	OSHA
7439-92-1	TLV-TWA 0.05mg/m ³	N/A	PEL-TWA 0.2mg/m ³
7664-93-9	TLV-TWA 0.2mg/m ³	REL-TWA 1mg/m ³	PEL-TWA 1mg/m ³
9003-56-9	N/A	N/A	N/A
65997-17-3	N/A	N/A	N/A

适当的工程控制 Appropriate engineering controls:

当处理化学物品时, 应遵循一般的预防措施 The usual precautionary measures for handling chemicals should be followed.

远离食品, 饮料和饲料 Keep away from foodstuffs, beverages and feed.

立即脱掉所有脏衣服或被污染的衣物 Remove all soiled and contaminated clothing immediately.

在休息之前和工作结束之后洗手 Wash hands before breaks and at the end of work.

个人防护装备 Personal Protective Equipment:

呼吸系统防护 Respiratory protection: 佩戴合适的防护口罩以减少呼吸系统接触。大量泄漏时, 穿戴化学防护服包括自给式呼吸器 Wear suitable protective mask. For a large large number of battery leakages, wear chemical protective clothing, including self-contained breathing apparatus.

手防护 Hand Protection: 佩戴合适的防护手套以减少皮肤接触Wear appropriate protective gloves to reduce skin contact.

眼睛防护 Eye Protection: 佩戴安全护目镜或眼睛防护结合呼吸防护Wear safety goggles or eye protection combined with respiratory protection.

皮肤和身体防护 Skin and Body Protection: 工作环境需要时, 穿着合适的防护服以减少皮肤接触。防护设备的类型必须根据特定工作场所中的危险物的浓度和含量来选择 Working environment required, wear suitable protective clothing to minimize contact with skin. The type of protective equipment must be according to the concentration and the content of certain hazardous substances in the workplace.

第九部分 理化特性

Section 9 - Physical and Chemical Properties

有关基本物理及化学特性的信息 Information on basic physical and chemical properties

外观与性状

黑色 Black.

Appearance and Characteristic:

棱柱形 Prismatic.

气味 Odour:

无资料 Not available.

pH值, 并指明浓度 pH, specify the concentration:

无资料 Not available.

熔点/凝固点 Melting point/freezing point:

无资料 Not available.

沸点、初沸点和沸程

无资料 Not available.

Boiling point or initial boiling point and boiling range:

闪点 Flash Point:

无资料 Not available.

易燃性 Flammability:

无资料 Not available.

溶解性 Solubility:

无资料 Not available.

爆炸极限 Lower and upper Explosion limit/flammability limit:

无资料 Not available.

蒸气压 Vapour pressure:

无资料 Not available.

蒸气密度(空气=1) Vapor density (Air=1):

无资料 Not available.

密度/相对密度Density and/or relative density:

无资料 Not available.

n-辛醇/水分配系数 Partition coefficient n-Octanol/water:

无资料 Not available.

自燃温度 Auto-ignition temperature:

无资料 Not available.

分解温度 Decomposition temperature:

无资料 Not available.

气味阈值 Odor Threshold:	无资料 Not available.
蒸发速率 Evaporation rate:	无资料 Not available.
其他信息 Other information	
电压 Voltage:	12V
电容量 Electric capacity:	36Ah

第十部分 稳定性和反应活性 Section 10 - Stability and Reactivity

稳定性 Chemical stability: 在正常环境温度下储存和使用稳定 Stable in storage and use at normal ambient temperature.

危险反应 Possibility of hazardous reactions: 无可用数据 No data available

应避免的条件 Conditions to Avoid: 火焰, 火花和其他热源, 禁忌物 Flames, sparks, and other sources of ignition, incompatible materials.

不相容的物质 Incompatible materials: 氧化剂, 酸, 碱 Oxidizing agents, acid base.

危险分解产物 Hazardous decomposition products: 二氧化碳, 一氧化碳 Carbon monoxide, carbon dioxide.

第十一部分 毒理学资料 Section 11 - Toxicological Information

急性毒性 Acute Toxicity

CAS No.	LC50/LD50
7439-92-1	无可用数据 No data available.
7664-93-9	LD50 Rat (oral): 2140mg/kg.
9003-56-9	无可用数据 No data available.
65997-17-3	无可用数据 No data available.

皮肤刺激或腐蚀 Skin corrosion Or irritation: 无可用数据 No data available.

眼睛刺激或腐蚀 Serious eye damage Or irritation: 无可用数据 No data available.

呼吸或皮肤过敏 Respiratory or Skin sensitization: 无可用数据 No data available.

生殖细胞突变性 Germ Cell mutagenicity: 无可用数据 No data available.

致癌性 Carcinogenicity: 无可用数据 No data available.

生殖毒性 Reproductive toxicity: 无可用数据 No data available.

特异性靶器官系统毒性——一次性接触 Specific target organ toxicity-Single exposure: 无可用数据 No data available.

特异性靶器官系统毒性——反复接触 Specific target organ toxicity-Repeated exposure: 无可用数据 No data available.

吸入危害 **Aspiration hazard**: 无可用数据 No data available.

潜在的有害效应 **Information on the likely routes of exposure**: 无可用数据 No data available.

第十二部分 生态学资料 Section 12 - Ecological Information

生态毒性 **Ecological Toxicity**: 无可用数据 No data available.

持久性和降解性 **Persistence and degradability**: 无可用数据 No data available.

潜在的生物累积性 **Bioaccumulative Potential**: 无可用数据 No data available.

土壤中的迁移性 **Mobility in Soil**: 无可用数据 No data available.

其他有害效应 **Other adverse effects**: 无可用数据 No data available.

第十三部分 废弃处置 Section 13 - Disposal Considerations

废弃处置方法 **Disposal methods**

建议 **Recommendation**:

请参考国家和地方的相关法规正确进行处理 Consult state, local or national regulations to ensure proper disposal.

受污染的容器和包装 **Uncleaned packaging**

建议 **Recommendation**: 必须根据官方的规章来丢弃 Disposal must be made according to official regulations.

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

联合国编号或识别编号 UN or ID Number	
IATA	UN2800
IMDG	UN2800
Model Regulation	UN2800
运输专用名称/说明 Proper Shipping Name/Description	
IATA	电池组, 湿的, 不泄露 Batteries, wet, non-spillable
IMDG	蓄电池, 湿的, 不溢出的 BATTERIES, WET, NON-SPILLABLE
Model Regulation	蓄电池, 湿的, 不溢出的 BATTERIES, WET, NON-SPILLABLE
包装等级 Packing Group	
IATA	N/A

IMDG	N/A
Model Regulation	N/A
危险性标签 Hazard Label	
IATA	N/A
IMDG	N/A
Model Regulation	N/A
危害环境 Environmental hazards	
海运污染物质 Marine pollutant:	不是 No
IMDG EmS:	F-A, S-B
用户特别预防措施	无资料
Special precautions for user	No information available.

运输信息 Transport information:

铅酸蓄电池 LFP1236 (12V36Ah) 已通过振动, 压差, 漏液测试, 报告编号为MRIZTU2G5349817U5。
Lead-acid Battery LFP1236 (12V36Ah) has passed the Vibration test, Pressure differential test, Non-spillable test, according to the report ID: MRIZTU2G5349817U5.

运输过程中请根据危险品规则DGR第66版特殊规定A67, 海运危险品规则IMDG (41-22)特殊规定238, 或者《联合国关于危险品运输建议书规章范本》(23rd) 特殊规定238执行。该物品不受本规则其它规定限制。

According to the Special Provisions A67 of IATA DGR 66th Edition, special provision 238 of IMDG (41-22) or the special provision 238 of <<Recommendations On The Transport Of Dangerous Goods-Model Regulations>> (23rd), the goods are not subject to other provision of this code.

电池相互隔开并防止短路、泄露, 并装放在结实的容器内运输。在运输过程中应防止剧烈振动、冲击或挤压, 防止日晒雨淋。

Separate batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport.

运输方式 Transport Fashion: 空运 By air, 海运 by sea, 铁路 by railway, 公路 by road.

第十五部分 法规信息

Section 15 - Regulatory Information

物质或混合物的安全, 健康和环境的规章 /法规信息

Safety, health and environmental regulations/legislation specific for the substance or mixture

CAS No.	中国现有化学品名录 IECSC	危险化学品目录 Catalogue of hazardous chemicals
7439-92-1	列入 Listed	未列入 Not Listed
7664-93-9	列入 Listed	列入 Listed
9003-56-9	列入 Listed	未列入 Not Listed
65997-17-3	列入 Listed	未列入 Not Listed

第十六部分 其他信息 Section 16 - Other Information

签发日期 Issue Date: 2025-01-02

编制部门 Issue Department: 技术部 Technical department

修改说明 Modification record:

注Notice to reader: 本份MSDS中的信息只是基于我们当前的所拥有的相关材料的信息而编制的, 只是为了描述本品的健康、安全与环境需求, 以使各有关方面能更好地了解和信任本产品。这些信息只是提供给您, 以供考虑、研究和确认。其中的一些危害预防措施描述并非唯一的。

所以本份MSDS不能作为使用本品实现任何特定目的的保证。各有关使用者有责任预先完成本品的安全性及其他方面的测试, 以评判其是否满足您的使用目的。

The information in this MSDS is based on current information we have on the material in question and is only intended to describe the health, safety and environmental needs of this product so that all interested parties can better understand and trust the product. This information is provided to you only for your consideration, research and confirmation. Some of the hazard precautions described are not unique.

Therefore, this MSDS cannot be used as a guarantee for any specific purpose. It is the responsibility of each user to complete safety and other tests on this product in advance to determine whether it meets your purpose of use.

缩略语和首字母缩写 Abbreviations and acronyms

CAS: 化学文摘社 (Chemical Abstracts Service);

EC: 欧盟委员会 (European Commission);

ACGIH: 美国政府及工业卫生协会 (American Conference of Governmental Industrial Hygienists);

NIOSH: 美国国家职业安全健康研究所 (US National Institute for Occupational Safety and Health);

OSHA: 美国职业安全与卫生管理局 (US Occupational Safety and Health);

TLV: 阈限值 (Threshold Limit Value);

TWA: 时间加权平均 (Time Weighted Average);

STEL: 短期接触限值 (Short Term Exposure Limit);

PEL: 容许暴露限值 (Permissible Exposure Level);

REL: 推荐的接触限值 (Recommended Exposure Limit);

PC-STEL: 短时间接触容许浓度 (Permissible concentration-short time exposure limit);
PC-TWA: 时间加权平均容许浓度 (Permissible concentration-time weighted average);
IARC: 国际癌症研究中心 (International Agency for Research on Cancer);
LC50: 半数致死浓度 (lethal concentration, 50 percent kill);
LD50: 半数致死剂量 (lethal dose, 50 percent kill);
EC50: 半数效应浓度 (Median effective concentration);
BCF: 生物浓缩因子 (Bioconcentration Factor)
BOD: 生化需氧量 (Biochemical oxygen demand);
IECSC: 中国现有化学品名录 (Inventory of Existing Chemical Substances in China);
NOEC: 无可观察效应浓度 (No observed effect concentration);
NTP: 美国国家毒理学项目 (US National Toxicology Program);
RTECS: 化学物质毒性作用登记 (Registry of Toxic Effects of Chemical Substances);
TOC: 总有机碳 (Total Organic Carbon);
TSCA: 美国有毒物质控制法 (Toxic Substances Control Act of USA);
DSL: 加拿大国内物质清单 (the Domestic Substances List of Canada);
NDSL: 加拿大非国内物质清单 (the Non-domestic Substances List of Canada);
TDG: 联合国关于危险货物运输的建议书规章范本 (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations)

批准人 Approver:

郑者标

报告结束 End of report

