地址：中国广东省广州市天河区珠江新城花城大道66号B座　邮编Postcode：510623
Add.：Tower B, No.66 Huacheng Avenue, Zhujiang Xincheng, Tianhe District, Guangzhou,Guangdong, P.R.C.
电话Tel：020-22131000　邮箱Email：ppdc@iqtcnet.cn　网址Website：https://www.iqtcnet.cn

MSDS 报告
MSDS Report

物品名称：　铅酸电池

Product Name：Lead acid battery

委托单位：　广州菲利斯太阳能科技有限公司

Applicant:　Guangzhou Felicity Solar Technology Co., Ltd

广州海关技术中心
GUANGZHOU CUSTOMS DISTRICT TECHNOLOGY CENTER

提取码：255183
验证平台：
https://css.iqtcnet.cn

1. 本报告结果仅对测试样品负责。The results in this report are relevant only to the sample(s) tested.
2. 未经签发机构书面同意，不得部分引述或复制本报告。Without written permission of IQTC, this report shall not be quoted or reproduced except in full.
3. 本报告数据、结果仅限定为委托方内部使用，不具有对社会证明作用。The report is not legally binding and could only be used as internal reference material for the applicant. It shall not be provided as a notarial certification.

地址：中国广东省广州市天河区珠江新城花城大道66号B座 邮编Postcode：510623
Add.：Tower B, No.66 Huacheng Avenue, Zhujiang Xincheng, Tianhe District, Guangzhou,Guangdong, P.R.C.
电话Tel：020-22131000 邮箱Email：ppdc@iqtcnet.cn 网址Website：https://www.iqtcnet.cn

物质安全资料表

Material Safety Data Sheet

第 1 部分 – 物品与厂商资料

Section 1 – Product and Company Identification

物品名称 Product Name	铅酸电池 Lead acid battery
物品型号 Product Type	G12V200AH
委托单位 Applicant	广州菲利斯太阳能科技有限公司 Guangzhou Felicity Solar Technology Co., Ltd
生产单位 Manufacturer	广州市白云区人和镇东华华业路 2 号 No. 2, Donghua Huaye Road, Renhe Town, Baiyun Area, Guangzhou
使用建议及使用限制 Prior Notice of Usage	请务必按照所提供的规格说明书和所附的注意条款来使用电池。 You are kindly requested to use the product in strict accordance with the specification and remarks include at the end of the document.
应急电话 Emergency telephone call	020-36719118
电子邮箱 E-mail	jie.duan@felicitysolar.com
邮编 Post Code	510470

第 2 部分：危险性概述

Section 2– Hazards Identification

本报告所述样品是铅酸蓄电池。

The sample Listed in this report is Lead acid battery.

根据联合国《关于危险货物运输的建议书 规章范本》(第二十三修订版)，国际海运危险品货物运输规则(Amdt.42-24)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.23 and IMDG Code (Amdt.42-24), the sample doesn’t belong to Dangerous Goods.

1. 本报告结果仅对测试样品负责。The results in this report are relevant only to the sample(s) tested.
2. 未经签发机构书面同意，不得部分引述或复制本报告。Without written permission of IQTC, this report shall not be quoted or reproduced except in full.
3. 本报告数据、结果仅限定为委托方内部使用，不具有对社会证明作用。The report is not legally binding and could only be used as internal reference material for the applicant. It shall not be provided as a notarial certification.

地址：中国广东省广州市天河区珠江新城花城大道66号B座 邮编Postcode：510623
Add.：Tower B, No.66 Huacheng Avenue, Zhujiang Xincheng, Tianhe District, Guangzhou,Guangdong, P.R.C.
电话Tel：020-22131000 邮箱Email：ppdc@iqtcnet.cn 网址Website：https://www.iqtcnet.cn

第 3 部分 – 成分辨识资料

Section 3– Composition/Information on ingredients

成分 Hazardous components	CAS NO.	% (按重量) /% (by weight)
ABS (Acrylonitrile-butdiene-styrene)	7664-93-9	6.5%
铅 Pb (plumb)	7439-92-1	63.5%
隔板纸 AGM (Absorbent Glass Mat Separator)	9003-56-9	2.6%
硫酸 H_2SO_4 （Sulfuric acid)	7440-70-2	26.6%
GEL (Colloidal sealed lead)	7664-93-9	0.8%

第 4 部分 – 急救措施

Section 4 – First Aid Measures

皮肤 Skin contact	移开受到污染的衣物，用肥皂和水彻底清洗，若仍有疼痛感，要联系医务人员。 Remove contaminated clothes and shoes immediately. Wash the adherence or contact region with soap and plenty of water. Seek medical attention immediately.
眼睛 Eye contact	用清水清洗至少15分钟，若仍有疼痛感，及时联系医务人员。 Immediately flush eyes with water continuously for at least 15 minutes. Seek medical attention immediately.
吸入 Inhalation	用棉布盖住嘴和鼻，移到空气新鲜处保持平静，立即就医。当呼吸困难或出现昏厥时，要进行人工呼吸。 Cover the victim in a blanket, move to the place of fresh air and keep quiet. Seek medical attention immediately. When dyspnea (breathing difficulty) or asphyxia (breath-bald), give artificial respiration immediately.
摄入 Ingestion	立即就医，不得进食。 Get medical aid. Do not induce vomiting. Get medical attention immediately.

1. 本报告结果仅对测试样品负责。The results in this report are relevant only to the sample(s) tested.
2. 未经签发机构书面同意，不得部分引述或复制本报告。Without written permission of IQTC, this report shall not be quoted or reproduced except in full.
3. 本报告数据、结果仅限定为委托方内部使用，不具有对社会证明作用。The report is not legally binding and could only be used as internal reference material for the applicant. It shall not be provided as a notarial certification.

地址：中国广东省广州市天河区珠江新城花城大道66号B座 邮编Postcode：510623
Add.：Tower B, No.66 Huacheng Avenue, Zhujiang Xincheng, Tianhe District, Guangzhou,Guangdong, P.R.C.
电话Tel：020-22131000 邮箱Email：ppdc@iqtcnet.cn 网址Website：https://www.iqtcnet.cn

第5部分 – 消防措施
Section 5 – Fire Fighting Measures

适用的灭火剂 Suitable Extinguisher	干粉，沙子，二氧化碳 Dry power, sand, carbon dioxide (CO_2).
不适用的灭火剂 Unsuitable Extinguisher	水 Water, water spray.
消防人员的特殊防护 Special protective equipment for firefighters	在火灾时，穿上防护服和带面罩的呼吸设备。 In case of fire, wear protective clothing and breathing apparatus to wear masks.

第6部分 – 意外漏液的处理方法
Section 6 – Accidental Release Measures

6.1 人身防范 Personal precautions 隔离泄漏污染区，限制出入。建议应急处理人员戴防尘面具（全面罩），穿防酸碱工作服。 Isolate leak contaminated areas, restrict access. Emergency personnel are recommended wear a dust mask (full cover), wear anti-acid clothes.
6.2 环境保护措施 Environmental precautions 如能确保安全，可采取措施防止进一步的泄漏或溢出。不要让产品进入下水道。一定要避免排放到周围环境中。 Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
6.3 材料清理方法和材料 Methods for cleaning up 用砂土、蛭石或其它惰性材料吸收。收集于干燥、洁净、有盖的容器中，转移至安全场所。若大量泄漏，收集回收或运至废物处理场所处置。 Use sand, vermiculite or other inert materials to absorb. Collect in a dry, clean, covered containers and transfer to a safe place. If large spills, recycling or collection should be shipped to the waste disposal sites.

1. 本报告结果仅对测试样品负责。The results in this report are relevant only to the sample(s) tested.
2. 未经签发机构书面同意，不得部分引述或复制本报告。Without written permission of IQTC, this report shall not be quoted or reproduced except in full.
3. 本报告数据、结果仅限定为委托方内部使用，不具有对社会证明作用。The report is not legally binding and could only be used as internal reference material for the applicant. It shall not be provided as a notarial certification.

地址：中国广东省广州市天河区珠江新城花城大道66号B座 邮编Postcode：510623
Add.：Tower B, No.66 Huacheng Avenue, Zhujiang Xincheng, Tianhe District, Guangzhou,Guangdong, P.R.C.
电话Tel：020-22131000 邮箱Email：ppdc@iqtcnet.cn 网址Website：https://www.iqtcnet.cn

第7部分 – 搬运和存储
Section 7 – Handling and Storage

操作注意事项 Handling Precautions	技术措施：避免使用者直接接触内液。 防火和防爆：正常使用时没有必要。 安全操作预防：不要损坏和除掉外壳。 安全操作特别忠告：不要将电池扔到火里或暴露在高温下，不要将电池浸在水或海里，避免接触强氧化剂。避免受到强烈的机械冲击或扔下，不要拆卸、改装或使其变形。不要让正负极接触。充电时，使用供应商指定充电条件。 Technical measures: Avoid direct contact with the content. Prevention of fire and explosion: Not necessary under normal use. Precaution for safe handling: Do not damage or remove the external shell. Specific safe handling advice: Never throw out battery in a fire or expose to high temperatures. Do not soak battery in water and seawater. Do not expose to strong oxidizers. Do not give a strong mechanical shock or throw down. Never disassemble, modify or deform. Do not connect the positive terminal to the negative terminal with electrically conductive material. In the case of charging, use only dedicated charge or charge according to the conditions specified by the supplier.
储存注意事项 Storage Precautions	避免阳光直射，避免高温高湿。储存在凉爽的环境。 Storage conditions (suitable to be avoided): Avoid direct sunlight, high temperature, and high humidity. Store in cool place.

第 8 部分 – 接触控制/个人防护
Section 8 – Exposure Controls and Person Protection

暴露限度 Occupational exposure limits	硫酸（CAS:7664-93-9）：PCTWA: 1 mg/m^3；PCSTEL 2 mg/m^3。
工程控制 Occupational control	充电时提供良好的通风。 Provide adequate ventilation when charging.
眼睛保护 Eye protection	当处理漏液电池时，需要佩戴保护眼睛或者化学护目镜。 When handling leaking batteries, need to wear eye protection or chemical goggles.
呼吸系统防护 Inhalation protection	遇火情，穿戴自携式呼吸器。 In fire situations, use self-contained breathing apparatus.
皮肤防护 Skin protection	根据标准流程佩戴防化手套保护措施。 Wear chemical gloves protection measures in accordance with standard procedures.
专用服装 Clothing	穿适当的防护衣服尽量减少皮肤与外界的接触。 Wear appropriate protective clothing to minimize contact with skin.

1. 本报告结果仅对测试样品负责。The results in this report are relevant only to the sample(s) tested.
2. 未经签发机构书面同意，不得部分引述或复制本报告。Without written permission of IQTC, this report shall not be quoted or reproduced except in full.
3. 本报告数据、结果仅限定为委托方内部使用，不具有对社会证明作用。The report is not legally binding and could only be used as internal reference material for the applicant. It shall not be provided as a notarial certification.

地址：中国广东省广州市天河区珠江新城花城大道66号B座 邮编Postcode：510623
Add.：Tower B, No.66 Huacheng Avenue, Zhujiang Xincheng, Tianhe District, Guangzhou,Guangdong, P.R.C.
电话Tel：020-22131000 邮箱Email：ppdc@iqtcnet.cn 网址Website：https://www.iqtcnet.cn

第 9 部分– 物理及化学性质

Section 9 – Physical and Chemical Properties

外观 Appearance	该样品为固体，灰色塑料外壳。 The sample is solid, with grey plastic shell.
气味阈值 Odor	不适用。/ Not applicable.
熔点/凝固点(℃) Melting point/freezing point	不适用。/Not applicable.
初始沸点 (℃) Initial boiling point	不适用。/Not applicable.
闪点(℃) Flashpoint	不适用。/Not applicable.
蒸发速率 Evaporation rate	不适用。/Not applicable.
易燃性（固态、气态） Flammability (soil, gas)	不易燃。/Not flammable.
最低可燃极限% (V/V)) Lower flammability limit	无资料。/No data.
最高可燃极限% (V/V) Upper flammability limit	无资料。/No data.
蒸汽压 (KPa) Vapor pressure	不适用。/Not applicable.
升华点(℃) Sublimation point	不适用。/Not applicable.
分配系数：n-辛醇/水 N-octanol/water partition coefficient	不适用。/Not applicable.
自动点火温度 (℃) Auto-ignition temperature	不适用。/Not applicable.
分解温度 Decomposition temperature	不适用。/Not applicable.

1. 本报告结果仅对测试样品负责。The results in this report are relevant only to the sample(s) tested.
2. 未经签发机构书面同意，不得部分引述或复制本报告。Without written permission of IQTC, this report shall not be quoted or reproduced except in full.
3. 本报告数据、结果仅限定为委托方内部使用，不具有对社会证明作用。The report is not legally binding and could only be used as internal reference material for the applicant. It shall not be provided as a notarial certification.

地址：中国广东省广州市天河区珠江新城花城大道66号B座 邮编Postcode：510623
Add.：Tower B, No.66 Huacheng Avenue, Zhujiang Xincheng, Tianhe District, Guangzhou,Guangdong, P.R.C.
电话Tel：020-22131000 邮箱Email：ppdc@iqtcnet.cn 网址Website：https://www.iqtcnet.cn

第 10 部分 – 稳定性及反应性

Section 10 – Stability and Reactivity

稳定性 Stability	在外界温度正常条件下是稳定的。 Under normal conditions, it is stable.
反应性 Reactivity	在正常情况下不会发生反应。 The reaction does not occur under normal circumstances.
禁配物 Materials to avoid	强氧化剂、还原剂、强碱、有机过氧化物等。 Strong oxidants, reducing agents, strong alkalis, organic peroxide.
避免接触的条件 Conditions to avoid	禁配物、火焰和火花，极端温度和直接日晒。 Incompatible materials, flames and sparks, extreme temperatures and direct sunlight.
危险的分解产物 Hazardous decomposition products	硫化物和铅化物等有毒物质。 Sulfide and lead compounds and other toxic substances.

第 11 部分 – 毒性资料

Section 11 – Toxicological Information

急性毒性 Acute toxicity	无资料。/No data.
皮肤腐蚀/ 刺激 Skin corrosion/irritation	内容物会造成皮肤灼伤。 Contents can cause skin burns.
严重眼睛损伤/刺激 Serious eye damage/eye irritation	内容物会造成严重眼损伤。 Contents may cause serious eye damage.
呼吸或皮肤敏化作用 Respiratory or skin sensitization	无资料。/No data available.
生殖细胞突变性 Germ cell mutagenicity	无资料。/No data available.
致癌性 Carcinogenicity	长期接触内容物，怀疑会导致致癌。 Long-term exposure with contents, suspected of causing cancer.
生殖毒性 Reproductive toxicity	内容物可能对生育能力或胎儿造成损害。 Contents may cause damage to fertility or the unborn child.
特异性靶器官系统毒性——一次性接触 STOT– Single exposure	内容物会引起呼吸道刺激。 Contents may cause respiratory irritation.
特异性靶器官系统毒性——反复接触 STOT–Repeated exposure	内容物长期或重复接触会对器官造成损害。 Causes damage to organs through prolonged or repeated exposure with contents.
吸入危害 Aspiration hazard	无资料。No data available.
其他毒性 Others	无资料。No data available.

1. 本报告结果仅对测试样品负责。The results in this report are relevant only to the sample(s) tested.
2. 未经签发机构书面同意，不得部分引述或复制本报告。Without written permission of IQTC, this report shall not be quoted or reproduced except in full.
3. 本报告数据、结果仅限定为委托方内部使用，不具有对社会证明作用。The report is not legally binding and could only be used as internal reference material for the applicant. It shall not be provided as a notarial certification.

地址：中国广东省广州市天河区珠江新城花城大道66号B座 邮编Postcode：510623
Add.：Tower B, No.66 Huacheng Avenue, Zhujiang Xincheng, Tianhe District, Guangzhou,Guangdong, P.R.C.
电话Tel：020-22131000 邮箱Email：ppdc@iqtcnet.cn 网址Website：https://www.iqtcnet.cn

第 12 部分 – 生态信息
Section 12 – Ecological Information

生态毒性资料 Ecological toxicity	无资料。/No data available.
生物降解性和降解性 Bio-degradability and Persistence	无资料。/No data available.
生物富集或积累性 Bioaccumulative potential	无资料。/No data available.
土壤中的迁移性 Mobility in soil	无资料。/No data available.
其它有害作用 Others	无资料。/No data available.

第 13 部分 –废弃处置方法
Section 13 –Disposal Considerations

处理措施 Disposal measures	各地方对处置条例可能不同于中国政府处置法规，应根据各国政府和地方的要求，对其进行处理。/Local disposal regulations may differ from Chinese regulations. Dispose in accordance with local country or state.
废弃装置处置 Waste disposal apparatus	受污染容器可循环利用或参照相关法规处置。容器在处置之前必须清理。 Means for disposing of contaminated waste containers can be recycled or reference to the relevant regulations. Containers must be cleaned before disposal.

第 14 部分 – 运输信息
Section 14 – Transportation

运输标签 Label for conveyance	不适用 Not Applicable
UN 编号 UN Number	不适用 Not Applicable
海洋污染物 Marine pollutant	无 No
本报告所述样品包装中需要具有适当的防短路的措施 The samples are properly protected so as to prevent short circuits in the package. 根据联合国《关于危险货物运输的建议书 规章范本》(第二十三修订版)，国际海运危险品货物运输规则(Amdt.42-24)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.23 and IMDG Code (Amdt.42-24), the sample doesn’t belong to Dangerous Goods.	

1. 本报告结果仅对测试样品负责。The results in this report are relevant only to the sample(s) tested.
2. 未经签发机构书面同意，不得部分引述或复制本报告。Without written permission of IQTC, this report shall not be quoted or reproduced except in full.
3. 本报告数据、结果仅限定为委托方内部使用，不具有对社会证明作用。The report is not legally binding and could only be used as internal reference material for the applicant. It shall not be provided as a notarial certification.

第 15 部分 – 法规资料

Section 15 – Regulatory Information

法律信息
Law information
《危险物品规则》
Dangerous Goods Regulations
《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
《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 (CPSA)
《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)

1. 本报告结果仅对测试样品负责。The results in this report are relevant only to the sample(s) tested.
2. 未经签发机构书面同意，不得部分引述或复制本报告。Without written permission of IQTC, this report shall not be quoted or reproduced except in full.
3. 本报告数据、结果仅限定为委托方内部使用，不具有对社会证明作用。The report is not legally binding and could only be used as internal reference material for the applicant. It shall not be provided as a notarial certification.

地址：中国广东省广州市天河区珠江新城花城大道66号B座　邮编Postcode：510623
Add.：Tower B, No.66 Huacheng Avenue, Zhujiang Xincheng, Tianhe District, Guangzhou,Guangdong, P.R.C.
电话Tel：020-22131000　邮箱Email：ppdc@iqtcnet.cn　网址Website：https://www.iqtcnet.cn

第 16 部分 –其它信息

Section 16 –Other Information

修订信息/ Revision	无/No
填表时间/ Issue date	2025-12-11
填表部门/ Prepared by	广州海关技术中心 GUANGZHOU CUSTOMS DISTRICT TECHNOLOGY CENTER
其他信息/ Other information	——

声明：本化学品安全技术说明书依据《化学品安全技术说明书 内容和项目顺序》（ISO 11014:2009）进行编写。我们已经尽了最大的努力搜集必要及有用的信息，我们相信这些信息是正确的，但不能保证它们都是准确及完备的。本表中所列的健康及安全数据并不一定适合所有的人和/或所有的情况。如何评价并安全地使用这种物质并遵守相应的法律法规，是用户的职责。本表中的数据和陈述并不表示允许或鼓励违反现行专利法规去使用任何的产品，也不表示做出了任何的保证，不管是明示的还是暗示的。

Disclaimer: This MSDS conforms to the requirements of Safety Date Sheet for Chemical Products-Content and Order of Sections (ISO 11014: 2009). This MSDS is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.

本报告替代了 1125005663-5 报告，原 2025-12-10 所发的 1125005663-5 报告作废。

This report replaces the report 1125005663-5, the original report 1125005663-5 issued on2025-12-10 is invalid.

* * * * 报告结束 End of report * * * *

1. 本报告结果仅对测试样品负责。The results in this report are relevant only to the sample(s) tested.
2. 未经签发机构书面同意，不得部分引述或复制本报告。Without written permission of IQTC, this report shall not be quoted or reproduced except in full.
3. 本报告数据、结果仅限定为委托方内部使用，不具有对社会证明作用。The report is not legally binding and could only be used as internal reference material for the applicant. It shall not be provided as a notarial certification.