NO.262660102450

中国认可
检验
INSPECTION
CNAS IB0071

安全技术说明书
(SDS)

中文名称：	铅酸蓄电池 6-DZF-20 12V20Ah
英文名称：	lead-acid battery 6-DZF-20 12V20Ah
生效日期：	2026年01月01日
编 制 人：	刘嘉伟
审 核 人：	刘晓卿
批 准 人：	董学胜

上海化工院检测有限公司
检验检测专用章

上海化工院检测有限公司

声　明

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超威电源集团有限公司

安全技术说明书 SDS

铅酸蓄电池 6-DZF-20 12V20Ah

第一部分 标识

中文名称：	铅酸蓄电池 6-DZF-20 12V20Ah
英文名称：	lead-acid battery 6-DZF-20 12V20Ah
企业名称：	超威电源集团有限公司
地址：	浙江省长兴县雉城镇新兴工业园区城南路 18 号
邮编：	313100
E-mail：	75667918@qq.com
传真号码：	86-572-6562893
应急咨询电话：	86-572-6562893
化学品的推荐用途和限制用途：	/
技术说明书编码：	262660102450
生效日期：	2026 年 01 月 01 日

第二部分 危险性概述

本品不在 GHS 体系涵盖的范围内。

主要危险性：	
火灾或爆炸危险性：	遇热可能分解并产生腐蚀性和/或毒性烟雾。
健康危害：	电池内的物质对眼睛、皮肤、粘膜和上呼吸道有腐蚀性。引起灼伤。禁止直接接触电池内的物质，防止吸入。
环境危害：	电池内的物质对环境可能有危害，对水体应给予注意。

第三部分 成分/组成信息

化学品名称：铅酸蓄电池 6-DZF-20 12V20Ah

成份	含量(%)	CAS NO.	EC NO.
铅	68	7439-92-1	231-100-4

酸	24	7664-93-9	231-639-5
塑壳	5	9003-56-9/9003-07-0	618-371-8/618-352-4
隔板	3	60676-86-0	262-373-8

第四部分 急救措施

皮肤接触： 若接触到电池内的物质，脱去受污染的衣物和鞋袜，立即用流动清水冲洗 20 分钟以上。就医。

眼睛接触： 若接触到电池内的物质，立即提起眼睑，立即用流动清水冲洗 20 分钟以上。就医。

吸入： 若吸入电池内的物质，立即脱离现场至空气新鲜处。若呼吸困难，给氧；若呼吸停止，人工呼吸。就医。

食入： 若食入电池内的物质，禁止催吐，若人员清醒，饮足量温水或牛奶，立即就医。

最重要的急性和延迟症状/影响： 无资料。

必要时注明立即就医及所需的特殊治疗： 无资料。

第五部分 消防措施

适当的灭火剂： 轻微火灾：使用干粉灭火剂、 二氧化碳灭火剂或喷水。
重大火灾：使用干粉灭火剂、 二氧化碳灭火剂、抗溶泡沫灭火剂或喷水灭火。

化学品产生的具体危险： 燃烧可能产生刺激性、腐蚀性和或毒性气体。

消防人员的特别防护行动： 消防员应戴自给正压式呼吸器，穿消防防护服以防止皮肤和眼睛接触。在上风处灭火。不相关人员疏散至安全区域。

第六部分 泄漏应急处理

个人防护措施、防护设备和应急程序： 使用个人防护设备。确保足够的通风。确保人群远离泄漏区或处于泄漏区上风向。不相关人员禁止进入。消除所有点火源。

环境防护措施： 避免泄漏物进入地表、沟渠或水域。清洗废水避免直接释放至环境中。

控制和清洁的方法和材料： 如电解液泄漏，用干土、干沙或其他不燃材料吸收和覆盖泄漏物，再用洁净铲子收集于干燥、洁净、有盖的容器中待处置。避免扬尘。清扫后通风，洒水。

第七部分 操作处置与储存

安全操作的防护措施： 操作人员应经过培训，严格遵守操作规程。建议操作人员穿耐腐蚀防护服 ，戴耐腐蚀手套，戴过滤式防毒面具。远离火种、热源。避免高温。保持容器密封。工作场所严禁吸烟。工作场所应有通风系统和设备。避免随意拆卸电池、弄错正负极和过充电。须牢固在内包装中，以有效防止短路和防止可导致短路的移动。万一电池内的物质泄漏，禁止眼睛、皮肤直接接触，避免吸入。应与

	易燃物，有机物质，还原剂，金属，强氧化剂，碱和水分开存放。
安全储存的条件，包括一切不相容性：	储存于阴凉、通风及干燥的库房内。远离火种、热源。避免高温。应与易燃物，有机物质，还原剂，金属，强氧化剂，碱和水分开存放。须牢固在内包装中，以有效防止短路和防止可导致短路的移动。储存区配备相应品种和数量的消防器材、泄漏应急处理设备和合适的收容材料。

第八部分 接触控制/个体防护

控制参数：	GBZ 2.1-2019 《工作场所有害因素职业接触限值 化学有害因素》： 铅及其无机化合物（按 Pb 计）铅尘 PC-TWA 0.05 mg/m³；铅烟 PC-TWA 0.03mg/m³ 备注 G2B（铅），G2A（铅的无机化合物） 硫酸 PC-TWA 1mg/m³ PC-STEL 2mg/m³ 备注 G1 聚丙烯粉尘 PC-TWA(总尘) 5mg/m³ ACGIH： 铅和无机化合物 TLV-TWA 0.05 mg/m³ 硫酸 TLV-TWA 0.2 mg/m³,T
适当的工程控制：	有通风系统和设备。提供安全淋浴和洗眼设备。
个体防护措施：	
眼/面部防护：	戴安全防护眼镜。
皮肤防护：	手防护：戴耐腐蚀手套。 身体防护：穿耐腐蚀防护服。
呼吸系统防护：	可能接触电解液烟雾时戴过滤式防毒面具。
高温危害：	无资料。
其他防护：	工作现场严禁吸烟、进食和饮水。工作后，淋浴更衣。

第九部分 理化特性

外观：	绿色黑色双色塑胶外壳
气味：	无臭
pH 值：	1-2
溶解性：	部分溶于水
熔点/凝固点：	＞300℃
沸点、初始沸点和沸程：	无资料。
闪点(闭杯)：	无资料。
密度/相对密度：	无资料。
运动黏度：	无资料。
燃烧上下极限或爆炸极限：	无资料。
蒸气压：	无资料。
相对蒸气密度：	无资料。

n-辛醇/水分配系数（对数值）：	无资料。
自燃温度：	无资料。
分解温度：	无资料。
颗粒特征：	无资料。
易燃性（固体、气体）：	无资料。

第十部分 稳定性与反应活性

反应性：	无资料。
化学稳定性：	常温常压下稳定。
危险反应的可能性：	无资料。
应避免的条件：	误操作，明火，高温，机械滥用，过充电，防止短路和防止可导致短路的移动。
不相容材料：	易燃物，有机物质，还原剂，金属，强氧化剂，碱和水。
危害性分解产物	金属氧化物、硫氧化物、硫酸酸雾等。

第十一部分 毒理学资料

急性毒性：	无资料。
皮肤腐蚀/刺激：	电池内的电解液对皮肤有腐蚀性。
严重眼损伤/眼刺激：	电池内的电解液对眼睛有腐蚀性。
呼吸致敏：	无资料。
皮肤致敏：	无资料。
生殖细胞致突变性：	无资料。
致癌性：	国际癌症机构（IARC）将"含有硫酸的无机强酸雾"归为 1 类致癌物质（吸入），对人类具有致癌性。 产品使用不当（例如过度充电）可能会导致高浓度硫酸雾的产生。
生殖毒性：	无资料。
特定目标器官毒性-单次接触：	无资料。
特定目标器官毒性-重复接触：	无资料。
吸入危险：	无资料。

第十二部分 生态学资料

毒性：	无资料。
持久性和降解性：	无资料。
潜在的生物累积性：	无资料。
在土壤中的流动性：	无资料。
其他有害效应：	无资料。

第十三部分 废弃处理

废弃处置方法：	废弃电池属于《国家危险废物名录》中的危险废物，编号：HW31，类别：含铅废物。 废弃电池的处置应符合《中华人民共和国固体废物污染环境防治法》、《废电池污染防治技术政策》等有关法律、法规、政策和标准的要求。建议交给具有资格的化学废物处理部门处置。 对于用过的而且将被运送去销毁或回收的电池，在运输前应对其仔细检查，以确保每节电池都是完好无损而且适合运输的。

第十四部分 运输信息

	本品已通过按照联合国《关于危险货物运输的建议书 规章范本》（23rd）的特殊规定 238(a)和 238(b)进行的振动试验、压差试验和 55℃漏液试验。
RID/ADR（2025 版）：	根据 RID/ADR 特殊规定 238，本品不受限制。
IATA DGR（67 版）：	根据 IATA DGR 特殊规定 A67，本品不受限制。
IMO IMDG CODE(2024 版)：	根据 IMO IMDG CODE 特殊规定 238，本品不受限制。

第十五部分 法规信息

国内法规：	
	本品已通过按照联合国《关于危险货物运输的建议书 规章范本》（23rd）的特殊规定 238(a)和 238(b)进行的振动试验、压差试验和 55℃漏液试验。
《危险货物道路运输规则》（JT/T 617-2018）：	根据特殊规定 238，本品不受限制。
《危险货物品名表》（GB 12268-2025）：	根据特殊规定 238，本品不受限制。
《铁路危险货物品名表》（TB/T 30006-2022）：	根据特殊规定 77，本品不受限制。
国际法规：	
欧盟指令(EU)2023/1542 及 2013/56/EU：	电池的标记，处置，回收等应满足欧盟指令(EU) 2023/1542 及 2013/56/EU 中的规定。

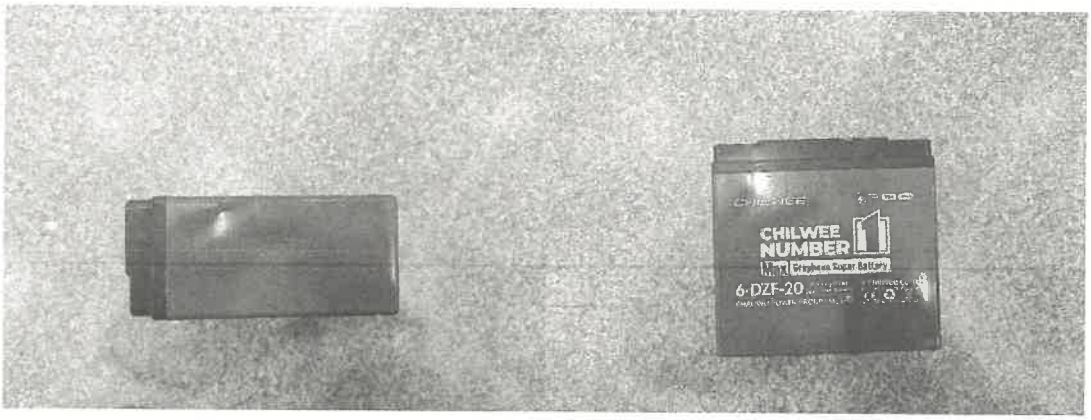
第十六部分 其他信息

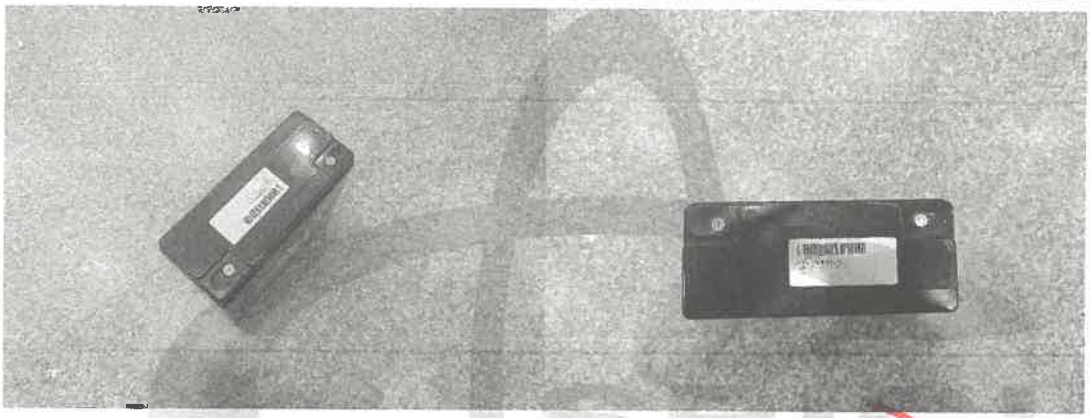
编制日期：	2026 年 01 月 01 日
编制部门：	上海化工院检测有限公司 电话（传真）：+86-21-52815377/31765555
修改信息：	第 0 次修订
缩略语和首字母缩写：	CAS：美国化学文摘社 EC：欧盟委员会 ACGIH：美国政府工业卫生学家委员会 PC-TWA：时间加权平均容许浓度 PC-STEL：短时间接触容许浓度 TLV-TWA：时间加权平均阈限值 G2B：可疑人类致癌物 G2A：可能人类致癌

物 G1：确认人类致癌物 T：以气溶胶的胸段计量 RID：国际铁路运输危险货物规则 ADR：关于国际公路运输危险货物的欧洲协议 IATA DGR：国际航空运输协会 危险品规则 IMO IMDG CODE：国际海事组织 国际海运危险货物规则 EU：欧洲联盟

其他信息：

本 SDS 报告仅针对电池。报告内容是根据申请单位提供的成分含量等信息和我司现有知识编写，仅作为指导使用。如果电池被用于其它产品中的组件，本 SDS 报告的信息可能不适用。本 SDS 的使用者必须对内容的正确性与完整性做出独立判断，根据实际情况决定其适用性，并对使用后果承担相关法律责任。


CHILWEE
NUMBER
6-DZF-20




CHILWEE
GEMINI PLATFORM
VEA
LINKPlus
CHILWEE
NUMBER
Max Graphene Super Battery
6-DZF-20 Valve Regulated Lead Acid Battery
CHAOWEI POWER GROUP CO., LTD.
c.chilwee.com

报告结束

NO.262660102450

中国认可
检验
INSPECTION
CNAS IB0071

SAFETYDATASHEET

Product Name: lead-acid battery 6-DZF-20 12V20Ah

Effective Date: 2026-01-01

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Approver: Dongxuesheng

Shanghai Institute of Chemical Industry Testing Co., Ltd.

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Chaowei Power Group Co., Ltd.

SAFETY DATA SHEET

lead-acid battery 6-DZF-20 12V20Ah

SECTION1 IDENTIFICATION

Product name:	lead-acid battery 6-DZF-20 12V20Ah
Company:	Chaowei Power Group Co., Ltd.
Address:	Emerging Industrial Park, Zhicheng Town, Changxing County, Huzhou City, Zhejiang Province
E-mail:	75667918@qq.com
Fax:	86-572-6562893
Emergency Phone:	86-572-6562893
Recommend use of the chemical and restrictions on use:	/
SDS Number:	262660102450
Effective Date:	2026-01-01

SECTION2 HAZARDS IDENTIFICATION

The product is outside of the scope of GHS system.

Main Hazards:

Fire or Explosion Hazards:

May decompose when heated and generate corrosive and/or toxic fumes.

Health Hazards:

The internal battery materials are corrosive to the eyes, skin ,mucous membranes and upper respiratory tract.Cause burns. Avoid directly contact with the internal battery .Prevent inhalation.

Environmental Hazards:

The internal battery materials may be harmful to the environment, and attention should be paid to water bodies.

SECTION3 INFORMATION ON INGREDIENTS

Product name: lead-acid battery 6-DZF-20 12V20Ah

Ingredient	Concentration(%)	CAS NO.	EC NO.
Lead (Pb, PbO2, PbSO4)	68	7439-92-1	231-100-4
Sulfuric Acid	24	7664-93-9	231-639-5
ABS or PP	5	9003-56-9/9003-07-0	618-371-8/618-352-4
Fiberglass Separator	3	60676-86-0	262-373-8

SECTION4 FIRST-AID MEASURES

Skin Exposure:

If in contact with the internal materials of battery, remove the contaminated clothing, shoes and socks, immediately flush with plenty of water for at least 20 minutes. Call a physician.

Eye Exposure:

In case of the internal battery's materials in contact with eyes, lift your eyelids immediately and rinse them with running water for more than 20 minutes. Call a physician.

Inhalation Exposure:

If inhaled the internal battery's materials, immediately remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician.

Oral Exposure:

If swallowed the internal battery's materials, do not induce vomiting. If the staff is awake, drink enough warm water or milk. Call a physician.

Most Important Symptoms/Effects, Acute and Delayed:

No data available.

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary:

No data available.

SECTION5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Small Fire: Dry chemical, CO2 or water spray.
Large Fire: Dry chemical, CO2, alcohol-resistant foam or water spray.

Specific Hazards Arising from the Chemical:

May decompose upon combustion to generate irritating, corrosive or toxic fumes when heated.

Special Protective Action for Fire-fighters:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place.

SECTION6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Entry to noninvolved personnel should be controlled around the leakage area by roping off. Remove all sources of ignition.

Environmental Precautions:

Avoid leakage to get into the earth, ditches or waters. Avoid directly release the cleaning waste water into the environment.

Methods and Materials for Containment and Cleaning up:

In case of internal materials leak, use dry soil, dry sand or other non-combustible materials to absorb and cover the leakage. Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

SECTION7 HANDLING AND STORAGE

Precautions for Safe Handling:

Operators should be trained and strictly abide by operating procedures. Wear chemical-resistant protective clothing, chemical-resistant protective gloves and a filter gas mask. Keep away from ignition sources, heat and flame. No smoking at working site. Handling is performed in a well ventilated place. Avoid disassembling the battery at will, reversing battery polarity within the battery assembly and overcharging. Such batteries must be packed in inner packaging in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits. In case of leakage of the material in the battery, avoid directly contact with eyes and skin. Avoid inhalation. Incompatibilities: Combustible materials, organic chemicals, reducing agents, metals, strong oxidizing agents, bases and water.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in a cool, dry, and well-ventilated area. Keep away from ignition sources, heat and flame. Incompatibilities: Combustible materials, organic chemicals, reducing agents, metals, strong oxidizing agents, bases and water. Such batteries must be packed in inner packaging in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits. Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

SECTION8 EXPOSURE CONTROL/PPE

Control Parameteeters :

GBZ 2.1-2019 Occupational Exposure Limits for Hazardous Agents in the Workplace - Part 1:
Lead and inorganic Compounds, as Pb Lead dust PC-TWA 0.05 mg/m^3 Lead fume PC-TWA 0.03mg/m^3
Remarks G2B (Lead), G2A (Inorganic compounds of lead)
Sulfuric acid PC-TWA 1mg/m^3 PC-STEL 2mg/m^3 Remarks G1
Polypropylene dust PC-TWA(Total dust) 5mg/m^3
ACGIH:
Lead and inorganic compounds TLV-TWA 0.05 mg/m^3
Sulfuric acid TLV-TWA 0.2 mg/m^3, T

Appropriate Engineering Controls:

Mechanical exhaust required. Safety shower and eye bath.

Individual Protection Measures:

Eye/Face Protection:

Wear chemical safety glasses.

Skin Protection:

Hand Protection: Wear chemical-resistant protective gloves.
Body Protection: Wear chemical-resistant protective clothing.

Respiratory Protection:

Wear a filter gas mask when you may be exposed to electrolyte fumes.

Thermal Hazards:

No data available.

Other Protect:

No smoking, drinking and eating at working site. Wash thoroughly after handling.

SECTION9 PHYSICAL/CHEMICAL PROPERTIES

Appearance:	green and black Plastics cement shell
Odor:	Odorless
pH Value:	1-2
Solubility:	partial soluble in water
Melting Point/Freezing Point:	＞300℃
Boiling Point, Initial Boiling Point and Boiling Range:	No data available.
Flash Point (Closed Cup):	No data available.
Density/Relative Density:	No data available.
Kinematic Viscosity:	No data available.
Lower/Upper Explosion Limit/Flammability Limit:	No data available.
Vapour Pressure:	No data available.
Relative Vapor Density:	No data available.
N-Octanol/Water(Log Value):	No data available.
Autoingnition Temperature:	No data available.
Decomposition Temperature:	No data available.
Particle Characteristics:	No data available.
Flammability (Solid, Gas):	No data available.

SECTION10 STABILITY AND REACTIVITY

Reactivity:

No data available.

Chemical Stability:

Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions:

No data available.

Conditions to Avoid:

Avoid misoperation, exposure to heat and open flame. Avoid mechanical or electrical abuse and overcharge. Prevent short circuits. Prevent movement which could lead to short circuits.

Incompatible Materials:

Combustible materials, organic chemicals, reducing agents, metals, strong oxidizing agents, bases and water.

Hazardous Decomposition Products:

Metal oxides, sulfur oxides, sulfuric acid mist, etc.

SECTION11 TOXICOLOGICAL INFORMATIO

Acute Toxicity:

No data available.

Skin Corrosion/Irritation:

The electrolyte in the battery causes severe skin burns.

Serious Eye Damage/Irritation:

The electrolyte in the battery causes serious eye damage.

Respiratory Sensitization:

No data available.

Carcinogenicity:

No data available.

Skin Sensitization:

No data available.

Germ Cell Mutagenicity:

The International Agency on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric acid" as a category 1 carcinogen (inhalation), a substance that is carcinogenic to humans. Misuse of the product, such as overcharging, may result in the generation of sulfuric acid mist at high levels.

Reproductive Toxicity:

No data available.

Specific Target Organ Toxicity -Single Exposure:

No data available.

Specific Target Organ Toxicity -Repeated Exposure:

No data available.

Aspiration Hazard:

No data available.

SECTION12 ECOLOGICAL INFORMATION

Toxicity:

No data available.

Persistence and Degradability:

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

SECTION13 DISPOSAL CONSIDERATION

Disposal Methods:

The discarded battery is listed in hazardous waste in the " Catalogue of Hazardous Waste ", Number: HW31, Category: Lead-containing Waste.
The disposal of discarded battery shall comply with the requirements of relevant laws, regulations, policies and standards such as the "Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste" and "Technical Policy for the Prevention and Control of Waste Battery Pollution". Contact a licensed professional waste disposal service to dispose of wastes. Used battery being transported for disposal or reclamation should be carefully checked prior to shipment to ensure the integrity of each battery and its suitability for transport.

SECTION14 TRANSPORT INFORMATION

The battery has passed the vibration test, pressure differential test and leakage test at 55℃ according to Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations (23rd) SPECIAL PROVISION 238.

RID/ADR(2025 Edition):	The battery is not subject to RID/ADR according to special provision 238.
IATA DGR(67th Edition):	The battery is not subject to IATA DGR according to special provision A67.
IMO IMDG CODE(2024 Edition):	The battery is not subject to IMO IMDG CODE according to special provision 238.

SECTION15 REGULATORY INFORMATION

Domestic Regulations:

The battery has passed the vibration test, pressure differential test and leakage test at 55℃ according to Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations (23rd) SPECIAL PROVISION 238.

Regulations Concerning Road Transportation of Dangerous Goods(JT/T 617-2018):

The battery is not subject to JT/T 617-2018 according to special provision 238.

List of Dangerous Goods(GB 12268-2025):

The battery is not subject to GB 12268-2025 according to special provision 238.

List of Dangerous Goods by Rail(TB/T 30006-2022):

The product is not subject to TB/T 30006-2022 according to special provision 77.

International Regulations:

Directive (EU)2023/1542 and 2013/56/EU:

The label, disposal and recycling of the battery shall meet the requirements of EU Directive (EU)2023/1542 and 2013/56/EU.

SECTION16 OTHER INFORMATION

Preparation Date:

2026-01-01

Preparation Department:

Shanghai Institute of Chemical Industry Testing Co., Ltd.
Tel(Fax):+86-21-52815377/31765555

Revision:

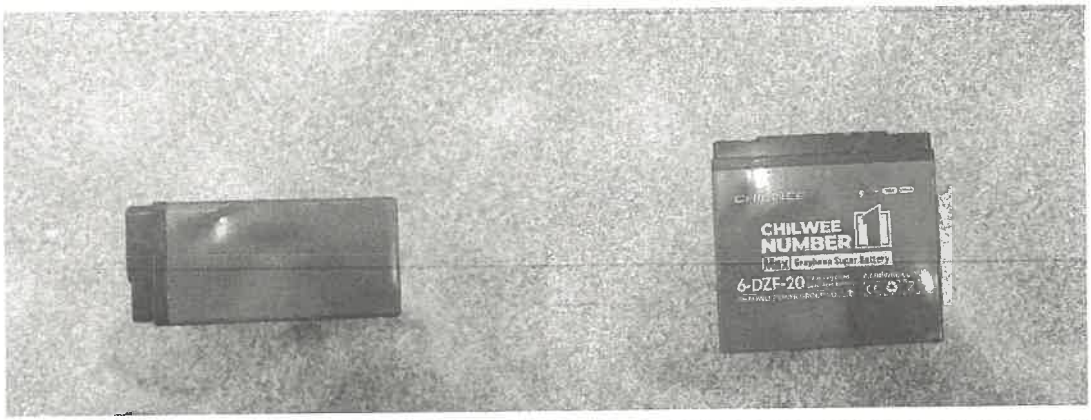
0

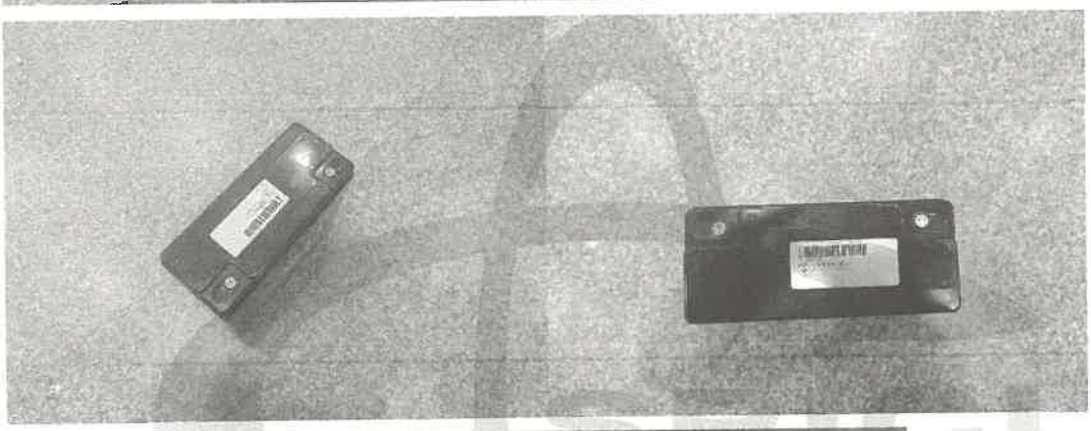
Abbreviations and Acronyms:

CAS: Chemical Abstracts Service EC: European Commission ACGIH: American Conference of Governmental Industrial Hygienists PC-TWA: Permissible concentration-time weighted average PC-STEL: Permissible concentration-short term exposure limit TLV-TWA: Threshold limit value-time weighted average G2B: Possibly carcinogenic to humans G2A: Probably carcinogenic to humans G1: Carcinogenic to humans T: Measured as thoracic fraction of the aerosol RID: Regulations concerning the International Carriage of Dangerous Goods by Rail ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IATA DGR: International Air Transport Association Dangerous Goods Regulations IMO IMDG CODE: International Maritime Organization International Maritime Code for Dangerous Goods EU: European Union

Other Information:

This SDS is only compiled for battery and based on the information such as ingredients provided by the applicant and our current knowledge. This SDS shall be used only as a guide. If the battery is used as a component in another product, the information in this SDS may not be applicable. The users of this SDS must make independent judgments on the correctness and completeness and then decide its suitability according to the actual situation. The users should take the relevant legal responsibilities for the consequences of use.







END OF REPORT