NO.262630102299

中国认可
检验
INSPECTION
CNAS IB0071

# SAFETYDATASHEET

| | |
|---|---|
| **Product Name:** | VRLA BATTERY 6-EVF-105(CWEP12-120) 12V105Ah |
| **Effective Date:** | 2026-01-01 |
| **Compiler:** | Xia Baiguei |
| **Checker:** | Liu Wanqing |
| **Approver:** | Dongxuesheng |

Shanghai Institute of Chemical Industry Testing Co., Ltd.

# Zhejiang Chaowei Hongchuang New Energy Technology Co., Ltd.

# SAFETY DATA SHEET

## VRLA BATTERY 6-EVF-105(CWEP12-120) 12V105Ah

### SECTION1 IDENTIFICATION

| | |
|---|---|
| Product name: | VRLA BATTERY 6-EVF-105(CWEP12-120) 12V105Ah |
| Company: | Zhejiang Chaowei Hongchuang New Energy Technology Co., Ltd. |
| Address: | No. 18, Chengnan Road, Huaxi Stret, Changxing County, Huzhou City, Zhejiang Provincee |
| E-mail: | 871643928@qq.com |
| Fax: | / |
| Emergency Phone: | 0572-6055815 |
| Recommend use of the chemical and restrictions on use: | / |
| SDS Number: | 262630102299 |
| 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: VRLA BATTERY 6-EVF-105(CWEP12-120) 12V105Ah

| Ingredient | Concentration(%) | CAS NO. | EC NO. |
|---|---|---|---|
| Positive plate (lead dioxide) | 28.6 | 1309-60-0 | 215-174-5 |
| positive plate(lead) | 8.0 | 7439-92-1 | 231-100-4 |
| Negative plate(lead) | 27.5 | 7439-92-1 | 231-100-4 |
| Electrolyte (sulfuric acid) | 9.4 | 7664-93-9 | 231-639-5 |

## 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/m³ Lead fume PC-TWA 0.03mg/m³
Remarks G2B (Lead ), G2A (Inorganic compounds of lead)
Sulfuric acid PC-TWA 1mg/m³ PC-STEL 2mg/m³ Remarks G1
ACGIH:
Lead and inorganic compounds TLV-TWA 0.05 mg/m³
Sulfuric acid TLV-TWA 0.2 mg/m³, 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: | blue grey 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 TLV-STEL: Threshold limit value-short term exposure limit 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***