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NO.2622080048

# SAFETY DATASHEET

Product Name: Lead-Acid Battery 6DM6.5 12V 6.5Ah

Effective Date: 2022-08-18

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Shanghai Institute of Chemical Industry Testing Co., Ltd.



扫描全能王 创建

## Sichuan Liyang Industry Co., Ltd.

## SAFETY DATA SHEET

**Lead-Acid Battery 6DM6.5 12V 6.5Ah**

## SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name: Lead-Acid Battery 6DM6.5 12V 6.5Ah  
 Company: Sichuan Liyang Industry Co., Ltd.  
 Address: Yanhuasi Industry Park, Anju District, Suining City, Sichuan, 400054, P.R. China  
 Email: 415878203@qq.com  
 Fax: 86-825-8668161  
 Emergency Phone: 86-825-8668161  
 Recommend use of the chemical and restrictions on use: /

SDS Number: 2622080048  
 Effective Date: 2022-08-18

## SECTION2 HAZARDS IDENTIFICATION

The product is outside of the scope of GHS system.

## Main Hazards:

## Fire or Explosion Hazard:

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

## Health Hazards:

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

## Environmental Hazards:

The internal materials of battery may be harmful to the environment. Pay attention to water system.

## SECTION3 INFORMATION ON INGREDIENTS

Product name: Lead-Acid Battery 6DM6.5 12V 6.5Ah

Ingredient	Concentration	CAS No.	EC No.
Lead dioxide	40%	1309-60-0	215-174-5



Lead monoxide	24.91%	1317-36-8	215-267-0
Water	11.51%	7732-18-5	231-791-2
Sulfuric acid	10.08%	7664-93-9	231-639-5
Fiber Glass Wool	5.32%	65997-17-3	266-046-0

#### 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:

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

##### Inhalation Exposure:

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

##### Oral Exposure:

Do not induce vomiting if the internal materials of battery are swallowed. Call a physician immediately.

##### 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:

Suitable: Dry chemical, Sandy soil, Carbon dioxide or appropriate foam.

##### 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 getting into the earth, ditches or waters. Avoid directly releasing the washing waste-water into the environment.



**Methods and Materials for Containment and Cleaning up:**

If the electrolyte leaks, 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.

**SECTION 7 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. The battery must be firmly packed in inner packaging so as to effectively prevent short circuits and short circuits caused by movement. If the electrolyte leaks, avoid directly contacting with eyes and skin. Avoid inhalation. Incompatibilities: Strong oxidizing agents, combustible materials and corrosives.

**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: Strong oxidizing agents, combustible materials and corrosives. The battery must be firmly packed in inner packaging so as to effectively prevent short circuits and short circuits caused by movement. Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

**SECTION 8 EXPOSURE CONTROL/PPE****Control Parameters:**

GBZ 2.1-2019 Occupational Exposure Limits for Hazardous Agents in the Workplace - Part 1: Chemical Hazardous Agents:

Lead and inorganic compounds (calculated as Pb) (Remarks: G2B (lead), G2A (lead inorganic compounds))

Lead dust: PC-TWA 0.05mg/m<sup>3</sup> Lead fume: PC-TWA 0.03mg/m<sup>3</sup>

Sulfuric acid and sulfur trioxide: PC-TWA 1 mg/m<sup>3</sup> PC-STEL 2 mg/m<sup>3</sup> (Remarks: G1)

ACGIH:

Lead dioxide: TLV-TWA 0.05 mg(Pb)/m<sup>3</sup>

Lead monoxide: TLV-TWA 0.05 mg(Pb)/m<sup>3</sup>

Sulfuric acid: TLV-STEL 3 mg/m<sup>3</sup>; TLV-TWA 1 mg/m<sup>3</sup>

**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.

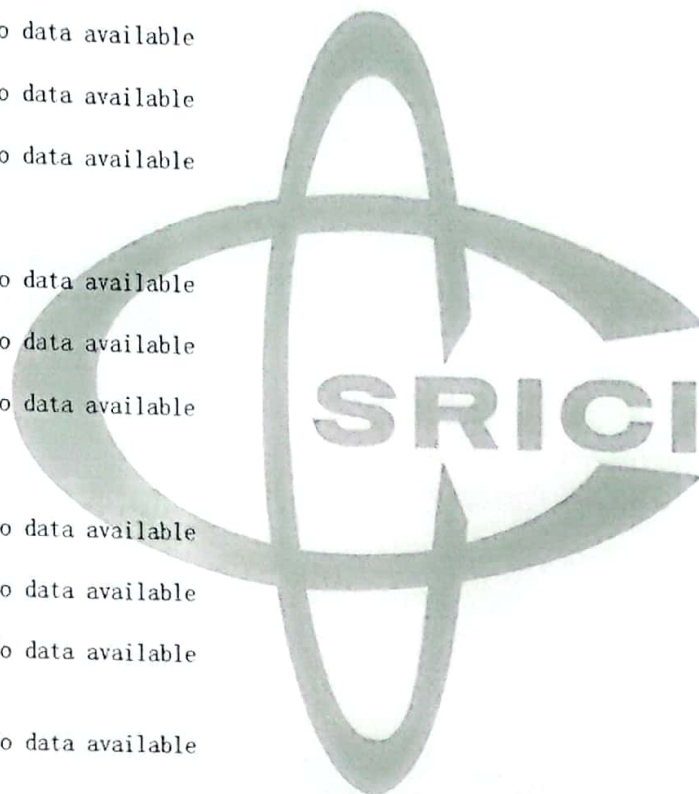
**Other Protect:**

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



**SECTION9 PHYSICAL/CHEMICAL PROPERTIES**

Appearance:	Black plastic cement shell
Odor:	Odorless
pH Value:	1-2
Solubility:	Partial soluble in water
Boiling Point, Initial Boiling Point and Boiling Range:	No data available
Melting Point/Freezing Point:	>300℃
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
Partition Coefficient	No data available
N-Octanol/Water( Log Value):	No data available
Autoignition 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 and short circuits caused by movement.
Incompatible Materials:	Strong oxidizing agents, combustible materials and corrosives.
Hazardous Decomposition Products:	Metal oxides, sulfur oxides, sulfuric acid mist, etc.



## SECTION11 TOXICOLOGICAL INFORMATION

### 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.

### Skin Sensitization:

No data available.

### Carcinogenicity:

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.

### Germ Cell Mutagenicity:

No data available.

### 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 product has passed the vibration test, pressure differential test and leakage test at 55°C according to Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations (20<sup>th</sup>) SPECIAL PROVISION 238.

RID/ADR (2021 Edition) : The product is not subject to RID/ADR (2021 Edition) according to special provision 238.

IATA DGR (63<sup>rd</sup> Edition) : The product is not subject to IATA DGR (63<sup>rd</sup> Edition) according to special provision A67.

IMO IMDG CODE (2020 Edition) :238. The product is not subject to IMO IMDG CODE (2020 Edition) according to special provision

**SECTION15 REGULATORY INFORMATION**

Domestic Regulations:

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

The product has passed the vibration test, pressure differential test and leakage test at 55°C according to Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations (20<sup>th</sup>) SPECIAL PROVISION 238.

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

List of Dangerous Goods (GB 12268-2012) :

The product has passed the vibration test, pressure differential test and leakage test at 55°C according to Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations (20<sup>th</sup>) SPECIAL PROVISION 238.

The product is not subject to GB 12268-2012 according to special provision 238.

List of Dangerous Goods by Rail (2009 Edition) :

Number: 81530 Name of Product: Batteries [Wet, Filled with acid, electric storage].

International Regulations:

Directive 2006/66/EC and 2013/56/EU:

The label, disposal and recycling of the battery shall meet the requirements of EU Directive 2006/66/EC and 2013/56/EU.

**SECTION16 OTHER INFORMATION**

Preparation Date:

2022-08-18

Preparation Department:

Shanghai Research Institute of Chemical Industry Testing Co., Ltd.

Tel (Fax): +86-21-52815377/31765555

Revision:

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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-STEL: Threshold limit value-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 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulations concerning the International Carriage of Dangerous Goods by Rail IMO IMDG CODE: International Maritime Organization International Maritime Code for Dangerous Goods IATA DGR: International Air Transport Association Dangerous Goods Regulations 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.



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