

# Safety Data Sheet

According to HCS-2012 APPENDIX D TO §1910.1200

Version: 1.0/EN  
Product name: Sealed Lead Acid Battery

Revision date: 29/04/2015  
Issue date: 07/03/2017

## 1. Identification

### (a) Product identifier

Product name: Sealed Lead Acid Battery

### (b) Other means of identification

Product description: Model: GS12V14AH  
Nominal Voltage: 12V  
Typical Capacity: 14Ah  
Watt-hour: 168Wh

### (c) Recommended use of the chemical and restrictions on use

Recommended use: Sealed Lead Acid Battery  
Restriction on use: No information available.

### (d) Details of the supplier of the product

Company name: FLYING POWER(JIANGXI)CO.LTD  
Address: HUANGBU TOWN,SHANGYOU COUNRTY,GANZHOU CITY,JIANGXI PROVINCE,CHINA  
E-mail: 1933757078@qq.com  
Telephone: +86-592-5632922

### (e) Emergency phone number

+86-13959229553

## 2. Hazard(s) identification

Hazard class and label elements of the substance according to GHS(the fifth revised edition):

### GHS hazard class

Health hazard(s)	Skin corrosion/irritation	category1
	Reproductive toxicity	category1
	Specific target organ toxicity, repeated exposure	category2
Environmental hazard(s)	Hazardous to the aquatic environment, long-term hazard	category1

### Pictogram



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<b>Signal</b>	Danger
<b>Hazard statement(s)</b>	H314 Causes severe skin burns and eye damage H360 May damage fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure H410 Very toxic to aquatic life with long lasting effects
<b>Precautionary statements</b>	
<b>Prevention</b>	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response</b>	P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/ attention. P314 Get medical advice/attention if you feel unwell. P363 Wash contaminated clothing before reuse. P391 Collect spillage.
<b>Storage</b>	P405 Store locked up.
<b>Disposal</b>	P501 Dispose of contents/container in accordance with local/regional/national/international regulations

### 3. Composition/information on ingredients

#### (a) Mixtures information

Chemical name	CAS No.	Concentration%
Lead	7439-92-1	64
Lead peroxide	1309-60-0	27
Sulfuric acid	7664-93-9	9

### 4. First-aid measures

**After skin contact** Take off the contaminated clothing and shoes immediately. Wash off with soap and

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plenty of water. Consult a physician.

**After eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

**After ingestion** Do Not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**After inhalation** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

## 5. Fire-fighting measures

**Hazardous products of combustion** Lead oxides, sulphur oxides

**Extinguishing method** Use Dry Chemical powder, foam or Carbon dioxide for extinction.

**Special protective equipment** Wear self contained breathing apparatus for fire fighting if necessary.

## 6. Accidental release measures

**Personal protective measures** Wear acid-resistant clothing, boots, gloves, and face shield.

**Environmental protective measures** Prevent the spills inflow to a sewer and then place in suitable container.

**Methods for taking in and cleaning up** Contain/absorb small spills with dry sand, earth, and vermiculite. Do not use combustible materials. If possible, carefully neutralize spilled electrolyte with soda ash, sodium bicarbonate, lime, etc.

## 7. Handling and storage

**Handling** Use personal protective equipment. Ensure adequate ventilation. Keep away from sources of ignition – No smoking. Avoid contacting with skin and eye.

**Storage** Store in a cool (-20~40°C), dry area away from combustible materials. Do not store in sealed, unventilated areas. Avoid overheating and overcharging.

## 8. Exposure controls/personal protection

### (a) Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Lead 7439-92-1	0.05 mg/m <sup>3</sup> TWA	0.05 mg/m <sup>3</sup> TWA 0.03g/m <sup>3</sup> Action Level	0.05 mg/m <sup>3</sup> TWA

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Lead peroxide 1309-60-0	Not established	Not established	Not established
Sulfuric acid 7664-93-9	0.2 mg/m3 TWA (thoracic particulate mass)	1 mg/m3 TWA	1 mg/m3 TWA

ACGIH TLV: American Conference of Governmental Industrial Hygienists -Threshold Limit Value

OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health.

**Other Exposure Guidelines:** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962(11th Cir., 1992) See section 15 for national exposure control parameters

**(b) Appropriate engineering controls**

- Engineering Measures:**
- 1.Showers
  - 2.Eyewash stations
  - 3.Ventilation systems

**(c) Individual protection measures, such as personal protective equipment**

- Eye/Face Protection:** Not necessary under normal conditions, wear safety glasses if handling an open or leaking battery.
- Skin and body Protection:** Not necessary under normal conditions, Wear protective gloves and protective clothing such as long sleeved clothing, impervious gloves, chemical resistant apron, and antistatic boots if handling an open or leaking battery.
- Respiratory Protection:** Not necessary under normal conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
- Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink, or smoke in work area. Maintain good housekeeping.

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## 9. Physical and chemical properties

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**Appearance and properties:** Outside: Black shell. Inside: Sulfuric acid, colorless liquid.

**Odor:** Odorless

**Odor threshold:** No data available

**PH value:** No data available

**Melting point/freezing point(°C) :** No data available

**Initial boiling point and boiling range(°C) :** No data available

**Flash point(°C) (closed cup):** No data available

**Evaporation Rate:** No data available

**Flammability:** Non flammable.

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**Upper explosive limit%(V/V):** No data available  
**Lower explosive limit%(V/V):** No data available  
**Vapor pressure(MPa):** No data available  
**Vapor density(g/mL):** No data available  
**Relative density(g/cm<sup>3</sup>):** No data available  
**Solubility:** Insoluble in water.  
**Octanol / water partition coefficient:** No data available  
**Auto-ignition temperature(°C) :** 130°C  
**Decomposition temperature(°C):** No data available  
**Kinematic viscosity (mm<sup>2</sup>/s):** No data available

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## 10. Stability and reactivity

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**(a) Reactivity**

No data available

**(b) Chemical stability**

Stable under the condition recommended.

**(c) Possibility of hazardous reactions**

No data available

**(d) Conditions to avoid**

Sparks and other sources of ignition. Prolonged overcharge. Fire or explosion hazard due to possible hydrogen gas generation.

**(e) Incompatible materials**

Bases, Halides, Organic materials, Carbides, fulminates, Nitrates, picrates, Cyanides, Chlorates, alkali halides, Zinc salts, permanganates, Hydrogen peroxide, Azides, Perchlorates., Nitromethane, phosphorous, cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorous(III) oxide, Powdered metals.

**(f) Hazardous decomposition products**

No data available

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## 11. Toxicological Information

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**Acute toxicity:** Sulfuric Acid: LD50(rat, Oral) 2140mg/kg; LC50(rat, Inhalation, 2h)0.51 mg/L

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**Skin corrosion/irritation:** No data available  
**Serious eye damage/eye irritation:** No data available  
**Respiratory or skin sensitization:** No data available.  
**Germ cell mutagenicity:** No data available  
**Carcinogenicity:** Lead (CAS No. 7439-92-1) : Group 2B Possibly carcinogenic to humans;  
Sulfuric acid (CAS No. 7664-93-9) : Group 1 Carcinogenic to humans (IARC) ;  
ABS resin (CAS No. 9003-56-9) : 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

## 12. 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*

Very toxic to aquatic life with long lasting effects

## 13. Disposal considerations

**Property of waste:** Neutralized acid may be flushed down the sewer. Spent batteries must be treated as hazardous waste and disposed of according to local state, and federal regulations. A copy of this material safety data must be supplied to any scrap dealer or secondary smelter with battery.

**Methods of disposal:** Dispose of in a manner consistent with federal, state, and local regulations.

**Precautions of disposal:** No data available.

## 14. Transport information

According to the criteria of chemical classification settled in 《UN Recommendations on the Transport of Dangerous Goods Model Regulations》 (Eighteenth revised edition), this substance is not dangerous.

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## 15. Regulatory information

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Component	CHINA	TSCA	ENCS	EINECS
Lead	√	√	√	√
Sulfuric	acid	√	√	√
ABS resin	-	-	√	√

### Note 1:

CHINA - China Inventory of Existing Chemical Substances (IECSC)

TSCA - United States Inventory of Toxic Substances Control Act Chemical Substances (TSCA)

ENCS - Japan Existing and New Chemical Substances (ENCS)

EINECS - European Inventory of Existing Commercial Chemical Substances (EINECS)

### Note 2:

"√" Indicates that the substance included in the regulations

"-" That no data or included in the regulations

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## 16. Other information, including date of preparation or last revision

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**Other information:** The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide.

----- End of the SDS -----