

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: GS12V2.8AH
Nominal Voltage: 12V
Typical Capacity: 2.8Ah
Watt-hour: 33.6Wh

(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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Signal	Danger
Hazard statement(s)	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
Precautionary statements	
Prevention	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.
Response	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.
Storage	P405 Store locked up.
Disposal	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	63
Lead peroxide	1309-60-0	28
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 ³ TWA	0.05 mg/m ³ TWA 0.03g/m ³ Action Level	0.05 mg/m ³ 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.

9. Physical and chemical properties

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/cm³): 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 (mm²/s): No data available

10. Stability and reactivity

(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

11. Toxicological Information

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

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

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

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 -----