

SEALED LEAD-ACID BATTERY

SAFETY DATA SHEET

SDS

JIA HUA BATTERY (RUIJIN) CO., LTD

according to GHS(fifth revised edition)

Section 1 - Product and Company Identification

Product name	SEALED LEAD-ACID BATTERY
Applicant name	JIA HUA BATTERY (RUIJIN) CO., LTD
Application address	JINSHA INDUSTRY PARK, RUIJIN CITY, JIANGXI PROVINCE, CHINA
Applicant post code	342500
Applicant fax	+86-797-2503677
Applicant emergency number	+86-797-2502204
Manufacturer name	JIA HUA BATTERY (RUIJIN) CO., LTD
Manufacturer address	JINSHA INDUSTRY PARK, RUIJIN CITY, JIANGXI PROVINCE, CHINA
Manufacturer post code	342500
Manufacturer fax	+86-797-2503677
Manufacturer emergency number	+86-797-2502204
Effective date	Aug 14, 2014

Section 2 –Hazards 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



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.
Response	P280 Wear protective gloves/protective clothing/eye protection/face protection. 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.

Section 3 – Composition/Information on Ingredients

Component	Concentration(%)	CAS No.	EC No.
Lead	Commercial Secrets	7439-92-1	231-100-4
Sulfuric Acid	Commercial Secrets	7664-93-9	231-639-5
ABS	Commercial Secrets	9003-56-9	—

Section 4 – First Aid Measures

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

Section 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.

Section 6 – Accidental Release Measure

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.

Section 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.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls Safety shower and eye bath. Mechanical exhaust required.

Respiratory protection Use a full-face supplied air respirator.

Eye protection Wear chemical goggles.

Hand Protection Wear impervious chemical resistant gloves

Body protection Protective work clothing

Section 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: No data available

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: No data available

Octanol / water partition coefficient: No data available

Auto-ignition temperature(°C): No data available

Decomposition temperature(°C): No data available

Kinematic viscosity (mm²/s): No data available

Section 10 – Stability and Reactivity

Reactive No data available

Chemical stability Stable under the condition recommended.

Possibility of hazardous reactions No data available

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

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.

Hazardous decomposition products No data available

Section 11 – Toxicological Information

Acute toxicity:

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

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 (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

Section 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

Section 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.

Section 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.

Section 15 - Regulatory Information

Component	CHINA	TSCA	ENCS	EINECS
Lead	√	√	√	√
Sulfuric Acid	√	√	√	√
ABS	-	-	√	√

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

Section 16 - Additional Information

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.