

**BATTERIES, WET, FILLED WITH ACID,  
ELECTRIC STORAGE  
SAFETY DATA SHEET**

# MSDS

**CHONGQING LIYANG INDUSTRY CO., LTD.**

according to GHS(fourth revised edition)

## Section 1 - Product and Company Identification

<b>Product name</b>	BATTERIES, WET, FILLED WITH ACID, ELECTRIC STORAGE
<b>Applicant name</b>	CHONGQING LIYANG INDUSTRY CO., LTD.
<b>Application address</b>	Industry Area B, Huaxi Industry Park, Banan Dist., Chongqing, China
<b>Applicant post code</b>	400000
<b>Applicant fax</b>	+86-23-62571745
<b>Applicant emergency number</b>	+86-23-62571745
<b>Manufacturer name</b>	CHONGQING LIYANG INDUSTRY CO., LTD.
<b>Manufacturer address</b>	Industry Area B, Huaxi Industry Park, Banan Dist., Chongqing, China
<b>Manufacturer post code</b>	400000
<b>Manufacturer fax</b>	+86-23-62571745
<b>Manufacturer emergency number</b>	+86-23-62571745
<b>SDS number</b>	DG1303953E
<b>Effective date</b>	Apr 10, 2013

## Section 2 –Hazards Identification

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

<b>Hazard class</b>	Skin corrosion/irritation	category 1
	Reproductive toxicity	category 1
	Specific target organ toxicity, repeated exposure	category 1
	Hazardous to the aquatic environment, long-term hazard	category 1

**Pictogram**



**Signal** Danger

**Hazard statement(s)**

H314 Causes severe skin burns and eye damage  
 H360 May damage fertility or the unborn child  
 H372 Causes 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.

<b>Response</b>	<p>P264 Wash thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/ attention.</p> <p>P310 Immediately call a POISON CENTER/doctor.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P391 Collect spillage.</p>
<b>Storage</b>	<p>P405 Store locked up.</p>
<b>Disposal</b>	<p>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</p>

### Section 3 – Composition/Information on Ingredients

Component	Concentration(%)	CAS No.	EC No.
Lead	63-78%	7439-92-1	231-100-4
Sulfuric	10-30%	7664-93-9	231-639-5
Polypropylene	9.567%	9003-07-0	—
Fiber Glass Wool	1.884%	65997-17-3	266-046-0

### Section 4 – First Aid Measures

<b>After skin contact</b>	Take off the contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
<b>After eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
<b>After ingestion</b>	Do Not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>After inhalation</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### Section 5 – Fire Fighting Measures

<b>Hazardous products of combustion</b>	Sulphur oxides
<b>Extinguishing method</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Special protective equipment</b>	Wear self contained breathing apparatus for fire fighting if necessary.

### Section 6 – Accidental Release Measure

<b>Personal precautions</b>	Use personal protective equipment. Ensure adequate ventilation. Avoid breathing vapors, mist or gas. Evacuate personnel to safe areas.
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<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## Section 7 – Handling and Storage

<b>Handling</b>	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
<b>Storage</b>	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## Section 8 – Exposure Controls, Personal Protection

<b>Engineering Controls</b>	Safety shower and eye bath. Mechanical exhaust required.
<b>Respiratory protection</b>	Use a full-face supplied air respirator.
<b>Eye protection</b>	Wear chemical goggles.
<b>Hand Protection</b>	Wear impervious chemical resistant gloves
<b>Body protection</b>	Protective work clothing

## Section 9 – Physical and Chemical Properties

<b>Appearance:</b> White housing battery	<b>Odor:</b> No data available
<b>Odor threshold:</b> No data available	<b>pH value:</b> No data available
<b>Melting point/freezing point(°C):</b> No data available	<b>Initial boiling point and boiling range(°C):</b> No data available
<b>Flash point(°C)(closed cup):</b> No data available	<b>Evaporation Rate:</b> No data available
<b>Flammability:</b> No data available	<b>Upper explosive limit%(V/V):</b> No data available
<b>Lower explosive limit%(V/V):</b> No data available	<b>Vapor pressure(MPa):</b> No data available
<b>Vapor density(g/mL):</b> No data available	<b>Relative density(g/cm<sup>3</sup>):</b> No data available
<b>Solubility:</b> No data available	<b>Octanol / water partition coefficient:</b> No data available
<b>Auto-ignition temperature(°C):</b> No data available	<b>Decomposition temperature(°C):</b> No data available
<b>Viscosity(m<sup>2</sup>/s):</b> No data available	

## Section 10 – Stability and Reactivity

<b>Reactive</b>	No data available
<b>Chemical stability</b>	Stable under the condition recommended.
<b>Possibility of hazardous reactions</b>	No data available
<b>Avoid conditions</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	Bases, Halides, Organic materials, Carbides, fulminates, Nitrates, picrates, Cyanides, Chlorates, alkali
<b>Hazardous decomposition products</b>	No data available

## Section 11 – Toxicological Information

<b>Acute toxicity:</b> No data available
<b>Skin corrosion/irritation:</b> No data available
<b>Serious eye damage/eye irritation:</b> No data available

**Respiratory or skin sensitization:** No data available.

**Germ cell mutagenicity:** No data available

**Carcinogenicity:** 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

**Ecotoxicity:**

Lead:LC<sub>50</sub>(Oncorhynchus mykiss,96h) 1.19mg/L

**Biodegradability:** No data available

**Abiotic degradation:** No data available

**Bioaccumulation:** No data available

**Other hazards:** Very toxic to aquatic life with long lasting effects

## Section 13 – Disposal Considerations

**Property of waste:** No data available

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

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

## Section 14 - Transport Information

**UN number:** 2794

**UN proper shipping name:** BATTERIES, WET, FILLED WITH ACID, electric storage

**Transportation primary hazard class:** 8

**Transportation secondary hazard class:** ——

**Packing group:** ——

## Section 15 - Regulatory Information

Component	CHINA	TSCA	ENCS	EINECS
Lead	√	√	√	√
Sulfuric	√	√	√	√
Polypropylene	-	-	-	-

**Note 1:**

**CHINA** - China Inventory of Existing Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**ENCS** - Japan Existing and New Chemical Substances

**EINECS** - European Inventory of Existing Commercial Chemical Substances

**Note 2:**

"√" Indicates that the substance included in the regulations

"-" That no data or included in the regulations

## Section 16 - Additional Information

**Prepared by:** Changzhou Testing Center of Entry-Exit Industrial and Consumable Products

**Completion Date:** Apr 10, 2013

**Modification statement:** Original. Please update before the implementation of the GHS fifth revised edition.

**Other information:** The information contained herein is prepared according to UN GHS (the fourth revised edition) and is accurate to the best of our knowledge. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.