

# Safety Data Sheet

Date of Issue: 2019-03-13

File No.: GY-SDS-190315-03

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product Identifier

**Name of Product:** Lead Acid Battery

### 1.2 Other means of identification

**Product Models:** HL12170

**Nominal Voltage:** 12V

**Nominal capacity:** 17Ah

**Weight:** 5.0KG

### 1.3 Recommended use of the chemical and restriction on use

**Recommended Use:** Lead Acid Battery

**Restriction on Use:** No information available

### 1.4 Information Of Supplier:

**Company Name:** GUANGDONG HENGLYPower TECH CO., LTD.

**Address:** Xinzhuang Industrial Park, Zhoutian Town, Renhua Xian, Shaoguan City, Guangdong, China

**Zip code:** 512334

**Contact person:** Xia Daiqiang

**Tel:** +86-075-16977183

**E-mail:** Xdqcn2003@126.com

### 1.5 Emergency Telephone

**+86-13534039410**

## 2. Hazard(s) Identification

### 2.1 Classification

This product is an article which is a sealed battery and as such does not require an SDS per the OSHA hazard communication standards unless ruptured. The hazards indicated are for a ruptured battery.

Acute toxicity – Oral	Category 3
Acute toxicity - Dermal	Category 3
Skin corrosion/irritation	Category 1A
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1
Specific target organ toxicity (repeated exposure)	Category 2
Germ cell mutagenicity	Category 1
Reproductive toxicity	Category 1A

### 2.2 Label elements

**2.2.1 Signal Word**      **Danger**

#### **2.2.2 Hazard Statements**

Cause severe skin burns and eye damage

Harmful if swallowed or inhaled.

# Safety Data Sheet

---

May damage fertility or the unborn child.

May cause damage to the reproductive system, the blood, the brain and the endocrine system through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.

Toxic if swallowed or inhaled.

## 2.2.3 Symbol



This product is an article which contains a chemical substance. Safety information is given for exposure to the article as solid. Intended use of the product should not result in exposure to the chemical substance, This is a battery. In case of rupture: the above hazards exist.

## 2.3 Precautionary Statements

### 2.3.1 Precautionary Statements – Prevention

Do not breath dust/fume/gas/mist/vapors/spray.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use personal protective equipment as required.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wash face, hands and any exposed skin thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Keep away from flames and hot surface –no smoking.

### 2.3 .2Precautionary Statements – Response

If exposed or connected: Get medical advice/attention. Specific treatment (see supplemental first aid/instruction on this label).

#### Skin

If on skin: wash with plenty of soap and water. Take off contaminated clothing and water before reuse, if skin irritation or rash occurs: get medical advice/attention if feel unwell.

#### Eye

If in eyes: Rinse cautiously with water for several minutes, remove contact lenses, if present and easy to do, Continue rinsing. Call a poison center or doctor/physician.

#### Inhalation

If inhalation: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or doctor/physician.

#### Ingestion

If swallowed: rinse mouth, do not induce vomiting ,Call a poison center or doctor/physician if feel unwell.

### 2.3.3 Precautionary Statements – Storage

Store locked up

### 2.3.4 Precautionary Statements – Disposal

Dispose of contents/container in accordance with local/ regional/ national/ international

# Safety Data Sheet

---

regulations.

## 2.4 Hazards not otherwise classified (HNOC)

Not applicable

## 2.5 Unknown Toxicity

9% of the mixture consists of ingredient(s) of unknown toxicity.

## 2.6 Other information

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 2.7 Interactions with other chemicals

Use of alcoholic beverages may enhance toxic effect.

## 3. Composition/ Information on Ingredients

Chemical Name	Molecular formula	CAS No.	Weigh%
Sulfuric acid	H <sub>2</sub> SO <sub>4</sub>	7664-93-9	22
Fiberglass Separator	O <sub>2</sub> Si	65997-17-3	5
Lead	Pb	7439-92-1	60
ABS	C <sub>18</sub> H <sub>29</sub> NaO <sub>3</sub> S	25155-30-0	13

## 4. First Aid Measures

### 4.1 General Advice

First aid is Applicable only in the case of cell rupture.

#### 4.1.1 Eye contact

If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area.

#### 4.1.2 Skin Contact

Wash off immediately with plenty of water and soap for at least 15 minutes. In the case of skin irritation or allergic reaction see a physician. May cause an allergic skin reaction.

#### 4.1.3 Inhalation of Vented Gas

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substances; give artificial respiration with the aid of a pocket mask equipped with a one-way value or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get medical attention immediately if symptoms occur.

# Safety Data Sheet

---

## **4.1.4 Ingestion**

Do not induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

## **4.1.5 Self-protection of the first aider**

Ensure that medical personnel are aware of the material(s) involved. Take precaution to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personnel protective equipment as required. Wear personnel protective clothing (see section 8).

## **4.2 Most important symptoms and effects, both acute and delayed**

Burning sensation, Itching. Rashes. Hives, Coughing.

## **4.3 Indication of any immediate medical attention and special treatment needed**

### **Notes to physician**

Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitization of susceptible persons. Treat symptomatically.

## **5. Fire –Fighting Measures**

### **5.1 Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. For example, dry powder or dry sand.

### **5.2 Unsuitable Extinguishing Media**

CAUTION: DO NOT use water.

### **5.3 Specific Hazards Arising from the chemical**

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Product is or contains a sensitizer.

### **Hazardous Combustion products**

Sulfur oxides

### **5.4 Explosion Data**

**Sensitivity to Mechanical Impact :No.**

**Sensitivity to Static Discharge: No.**

### **5.5 Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/IOSH

# Safety Data Sheet

(approved or equivalent) and full protective gear. Move containers from fire area if you can do it without risk.

## 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### 6.2 Environmental Precautions

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

### 6.3 Methods for containment

Prevent further leakage or spillage if safe to do so. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

### 6.4 Methods for cleaning up

Pick up and transfer to properly labeled containers.

## 7. Handling and Storage

### 7.1 Precaution for safe handling

In case of rupture, use personal protection equipment. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.

### 7.2 Conditions for safe storage, including any incompatibilities

#### **Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

#### **Incompatible products**

Strong acids. Strong oxidizing agent. Strong bases. Organic matter.

## 8. Exposure Controls/Personal Protection

### 8.1 Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sulfuric acid 7664-93-9	TWA: 0.2 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	IDLH: 15 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>
Lead 7439-92-1	TWA: 0.05mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	IDLH:100 mg/m <sup>3</sup> ( as Pb) TWA: 0.05mg/m <sup>3</sup>

# Safety Data Sheet

---

ACGIH TLV: American Conference of Governmental Industrial Hygienists-Threshold Limit Value  
OSHA PEL : Occupational Safety and Health Administration-Permissible Exposure Limits  
NIOSH IDLH Immediately Dangerous to Life or Health

## **Other Exposure Guidelines:**

Vacated limits revoked by the court of Appeals decision in AFL-CLO v. OSHA, 965F, 2d 962(11th Cir., 1992) See section 15 for national exposure control parameters.

## **8.2 Appropriate engineering controls**

### **Engineering Measures:**

Showers, Eyewash stations, Ventilation systems

## **8.3 Individual protection measures, such as personal protective equipment**

**Respiratory protection :** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Eye /face protection:** if splashes are likely to occur: Wear safety glasses with side shields(or goggles). None required for consumer use.

**Skin protection:** Wear protective gloves and protective clothing. Long sleeved clothing. Imperious gloves.

**Hygiene Measure:** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. For environmental protection, remove and wash all contaminated protective equipment before re-use. No information available.

## **9. Physical and Chemical Properties**

**Physical State:** Solid

**Color:** Black

**Odor:** Odorless

**Odor Threshold:** No information available

**pH:** No data available

**Melting/freezing point:** No data available

**Boiling point/boiling range:** No data available

**Flash Point:** No data available

**Evaporation Rate:** No data available

# Safety Data Sheet

---

**Flammability (Solid, gas):** No data available

**Flammability Limit in Air:**

**Upper flammability limit:** No data available

**Lower flammability limit:** No data available

**Vapor pressure:** No data available

**Vapor density:** No data available

**Specific Gravity:** No data available

**Solubility:** Insoluble in water

**Partition coefficient:n-octanol/water:** No data available

**Autoignition temperature:** No data available

**Decomposition temperature:** No data available

**Kinematic viscosity:** No data available

**Dynamic viscosity:** No data available

## **10. Stability and Reactivity**

**Reactivity:**

No data available

**Chemical stability:**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:**

None under normal processing.

**Hazardous Polymerization:**

Hazardous polymerization dose not occur.

**Conditions to avoid:**

Do not subject battery to mechanical shock. Keep away from open flames, high temperature.

**Incompatible materials:**

Strong acids, Strong oxidizing agents. Strong bases. Metal powders. Halogens. Cyanides.

**Hazardous decomposition products:**

Sulfur oxides

## **11. Toxicological Information**

### **11.1 Information on likely routes of exposure**

**Product information:**

Product does not present an acute toxicity hazard based on known or supplied information. In

# Safety Data Sheet

case of rupture:

## Inhalation:

Specific test data for the substance or mixture is not available. Corrosive by inhalation (based on components). Inhalation of corrosion fumes/gases may cause coughing, choking, headache, dizziness and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure and increased heart rate. Inhaled corrosion substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract.

## Eye Contact:

Specific test data for the substance or mixture is not available. Cause burns. (based on components). Corrosion to the eyes and may cause severe damage including blindness. Cause serious eye damage. May cause irreversible damage to eyes.

## Skin Contact:

Specific test data for the substance or mixture is not available. Corrosion (based on components). Cause burns. Toxic in contact with skin. May be absorbed through the skin in harmful amounts.

## Ingestion:

Specific test data for the substance or mixture is not available. Cause burns. (based on components). Ingestion cause burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.

## Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sulfuric acid 7664-93-9	= 2140 mg/kg ( Rat )	-	= 320 mg/m <sup>3</sup> ( Rat ) 2 h
Lead 7439-92-1	= 1000 mg/kg ( Rat )	-	-

## 11.2 Information on toxicological effects

### Symptoms:

Erythema (skin redness). May cause redness and tearing of eyes. Itching. Rashes. Hives. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/or wheezing.

## 11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization:** May cause sensitization of susceptible person, May cause sensitization by skin contact. May cause sensitization by inhalation.



# Safety Data Sheet

**Mutagenic Effects:** No information available.

**Carcinogenicity:** the table below whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sulfuric acid 7664-93-9	A2	Group 1	Known	X
Lead 7439-92-1		Group 2A	Reasonably Anticipated	X

**ACGIH** (American Conference of Governmental Industrial Hygienists)

*A1 - Known Human Carcinogen*

A3- Animal Carcinogen

**IARC** (International Agency for research on Cancer)

1 - Carcinogenic to Humans

2A - Probably Carcinogenic to Humans Group

2B- Possibly Carcinogenic to humans

**NTP** (National Toxicology Program) Reasonably Anticipated- reasonably anticipated to be a human Carcinogenic.

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

**OSHA** (Occupational safety and Health Administration of the US Department of Labor)

X-Present

**Reproductive Toxicity:** Contains a known or suspected reproductive toxin.

**STOT- single exposure:** No information available.

**STOT- repeated exposure:** Cause damage to organs through prolonged or repeated exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. ( STOT RE )

**Chronic Toxicity:** Prolonged exposure may cause chronic effects. Repeated contact may cause allergic reactions in very susceptible persons. Contain a known or suspected carcinogen. Avoid repeated exposure. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.

**Target Organ Effects:** Respiratory system. Eyes. Skin. Gastrointestinal tract(GI). Blood. Central Nervous System(CNS). Kidney. Liver. Lungs. Nasal cavities.

**Aspiration Hazard:** No information available.

## **11.4 Numerical measures of toxicity product information**

The following values are calculated based on chapter 3.1 of the GHS document.

ATE mix(oral): 1600 mg/kg

ATE mix(dermal): 1540 mg/kg (ATE)

ATEmix (inhalation) : 160 mg/l

# Safety Data Sheet

## 12. Ecological Information

**Ecotoxicity :** Very toxic to aquatic life with long lasting effects.

**Persistence and Degradability:** No information available

**Bioaccumulation:** No information available

**Other adverse effects:** No information available

## 13. Disposal Considerations

### 13.1 Waste treatment methods

**Disposal methods:**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements. Should not be released into the environment.

**Contaminated Packaging:**

Dispose of in accordance with federal, state and local regulations.

**California Hazardous Waste Codes 141**

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Sulfuric acid 7664-93-9	Toxic Corrosive
Lead 7439-92-1	Toxic

## 14. Transportation Information

According to IATA DGR 60th Edition for transportation, assemble articles strictly according to Hazardous Goods Transport Rules of Railway Station , The batteries should be securely packed and protected against short-circuits. Examine whether the package of the containers are integrate and tighten closed before transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain. The transport vehicle and ship must be cleaned and sterilized otherwise it is not allowed to assemble articles. During transport, the vehicle should prevent exposure, rain and high temperature. For stopovers, the vehicle should be away from fire and heat sources. When transported by sea, the assemble place should keep away from bedroom and kitchen, and isolated from the engine room, power and fire source. Under the condition of Road Transportation, the driver should drive in accordance with regulated route, don' t stop over in the residential area and congested area. Forbid to use wooden, cement for bulk transport.

# Safety Data Sheet

**UN-Number** DOT, IMDG, IATA: UN2800  
**UN proper shipping name** DOT, IMDG, IATA: Batteries, wet, non-spillable  
**Transport hazard class** DOT, IMDG, IATA 8  
**Packing group** DOT, IMDG, IATA: II  
**TDG:** Not regulated  
**MEX:** Not regulated  
**ICAO:** Not regulated  
**Ems No.:** F-A,S-B  
**RID:** Not regulated  
**ADR:** Not regulated  
**AND:** Not regulated

## 15. Regulatory information

### 15.1 International Inventories

TSCA Complies  
DSL All components are listed either on the DSL or NDSL.  
TSCA – United State Toxic Substance Control Act Section 8(b) Inventory  
DSL/NDSL – Canadian Domestic Substance List/Non-Domestic Substance List

### 15.2 US Federal Regulations

SARA 313: Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986(SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	Weight (%)	SARA313-Threshold values(%)
Sulfuric acid 7664-93-9	30-50	0.1
Lead 7439-92-1	60-90	0.1

### 15.3 SARA 311/312 Hazard Categories

Acute Health Hazard No  
Chronic Health Hazard No  
Fire Hazard No  
Sudden release of pressure hazard No  
Reactive Hazard No

### 15.4 CWA (Clean Water Act)

This product contain the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA -Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sulfuric acid 7664-93-9		X	X	X
Lead 7439-92-1		X	X	X

# Safety Data Sheet

## 15.5 CERCLA

This material, as supplied, contain one or more substances regulate as a hazardous under the comprehensive Environmental Response Compensation and Liability Act(CERCLA) (40 CER 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sulfuric acid 7664-93-9		X	

## 15.6 US State Regulations

### **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Sulfuric acid 7664-93-9	Carcinogen
Lead 7439-92-1	Carcinogen

## U.S State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Sulfuric acid 7664-93-9	x	x	x	x	x
Lead 7439-92-1	x	x	x	x	x

## 15.7 International Regulations

### **Canada**

WHMIS Hazard Class  
Non-controlled

## 16. Other Information

### **Disclaimer:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used material used in combination with any other materials or in any process, unless specified in the test

**Prepared By:** GUANGDONG HENGLYPOWER TECH CO., LTD.

**Revision Date:** March-13-2019

--- End of SDS ---