

**Safety Data Sheet****Regulation (EC) No. 1907/2006, 1272/2008****Trade Name: Sealed Lead Acid Rechargeable Battery****Page 1 of 1****SDS REPORT**

**SDS Report No.:** WST14030034R  
**Compilation Date:** Mar.31.2014  
**Application:** Foshan Sanshui Enertech Battery Co., Ltd.  
**Address:** No. 10<sup>th</sup> Baosheng Road, Xinan Technology & Industrial Central Park, Sanshui District, Foshan City, Guangdong Province, China.528100  
**Sample Name:** Sealed Lead Acid Rechargeable Battery  
**End Use:** For Household appliances  
**Composition/Ingredient of The Sample:** See Section 3 on the SDS  
**Service Requested:** Safety Data Sheet (SDS) for the sample with submitted composition.  
**Summary:** As per request, the contents and formats of the SDS are prepared in according with European Commission Directives 67/548/EEC, 1999/45/EC, Regulation (EC) No 1907/2006, Regulation (EC) No 453/2010 and Regulation(EC) No 1272/2008,and is provided per attached.

Signed for and on behalf of  
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## 1 Identification of the substance/mixture and of the company/undertaking

· **Product identifier**

- **Trade name:** Sealed Lead Acid Rechargeable Battery
- **Article Number:** Data not available
- **Registration number:** Data not available
- **Relevant identified uses of the substance or mixture and uses advised against on**
- **Application of the substance/ mixture:** For Power Supply

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Foshan Sanshui Enertech Battery Co., Ltd.

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· **Further information obtainable from:**

Foshan Sanshui Enertech Battery Co., Ltd.

· **Emergency telephone number**

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## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to regulation (EC) 1270/2008:**



**GHS08 health hazard**

Repr. 1A, H360 May damage fertility or the unborn child

STOT RE 2, H373 May cause damage to organs



**GHS05 Corrosion**

Skin Corr. 1A, H314 Causes severe skin burns and eye damage



**GHS07 exclamation mark**

Acute Tox. 4, H302 Harmful if swallowed

Acute Tox. 4, H332 Harmful if inhaled



**GHS09 environment**

Aquatic Acute 1, H400 Very toxic to aquatic life

*Aquatic Chronic 1, H410 Very toxic to aquatic life with long lasting effects*

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC:**



**T, toxic**

R61 May cause harm to the unborn child

R26 Very Toxic by inhalation



**C, Corrosive**

R34 Causes burns



**Xn, Harmful**

R20/22 Harmful by inhalation and if swallowed.



**N, Dangerous for the environment**

R50/53 Very Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

· **Label elements**

· **Labeling according to Regulation (EC) No 1272/2008:**

The product is classified and labeled according to Regulation (EC) No 1272/2008.

· **Hazard pictograms:**



GHS08 GHS05 GHS07

· **Signal word: Danger**

· **Hazard-determining components of the labeling: Not applicable**

· **Hazard statements:**

H302	Harmful if swallowed
H332	Harmful if inhaled
H360	May damage fertility or the unborn child
H373	May cause damage to organs
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

· **Precautionary statement:**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

P271	Use only outdoors or in a well-ventilated area.
P281	Use personal protective equipment as required.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P320	Specific treatment is urgent (see on this label).
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.

• **Additional information:**

Important! This product contains substance that is of restricted use under Annex XVII of Regulation (EC) No. 1907/2006. For details, please refer to Section 15 of this Safety Data Sheet.

• **Other hazards:** Not applicable

• **Results of PBT and vPvB assessment**

**PBT:** Not applicable

**vPvB:** Not applicable

### 3 Composition/information on ingredients











• **Chemical characterization:** Mixtures

• **Description:**

Mixture of the substances listed below with nonhazardous additions.

For the wording of the listed risk phrase refer to section 16.

• **Dangerous components:**

CAS No.: 7439-92-1 EC No.: 231-100-4	Lead  Repr. Cat. 1, R61-62;  Xn, R20/22; R33  N, R50-53  Repr. 1A, H360; STOT RE 2, H373;  Acute Tox. 4, H302; Acute Tox. 4, H332;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410;	60% - 75%
CAS No.: 7664-93-9 EC No.: 231-639-5 Annex I Index: 016-020-00-8	Sulphuric acid  C, R34  Skin Corr. 1A, H314	15%-20%
CAS No.: 7440-70-2 EC No.: 231-179-5 Annex I Index: 020-001-00-X	Calcium  F; R15  Water-react. 2, H261	< 0.1%
• <b>Non-dangerous components:</b>		
CAS No.: 9003-56-9	ABS-Case Materials	5%-10%
CAS No.: 308066-84-4	Glass Fiber- Separator	5%-8%

CAS No.: 7440-31-5	Tin	<0.5%
EC No.: 231-141-8		

#### **4 First aid measures**

**· Description of first aid measures**

**General advice:**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**After inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**After skin contact:** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Consult a physician if skin irritation happens.

**After eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**After swallowing:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician immediately.

**· Information for doctor**

**· Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**· Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

#### **5 Fire-fighting measures**

**· Extinguishing media**

**· Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight large fires with water spray or alcohol resistant foam.

**· Special hazards arising from the substance or mixture:** No further relevant information available.

**· Advice for firefighters**

**Protective equipment:**

Wear fully protective suit.

Wear self-contained respiratory protective device.

#### **6 Accidental release measures**

**· Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Avoid breathing vapors, mist or gas.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with eyes.

Avoid contact with skin.

Avoid release to the environment.

- **Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binder, universal binder, sawdust).  
Use neutralizing agent.  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections:**  
See section 7 for information on safe handling.  
See section 8 for information on personal protection equipment.  
See section 13 for disposal information.

## 7 Handling and storage

- **Handling**
- **Precautions for safe handling:**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Open and handle receptacles with care.  
Keep receptacles tightly sealed.  
Wear protective equipment.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust/aerosols.  
Avoid breathing dust/fume/gas/mist/vapours/spray/aerosols.  
Avoid contact with skin and eyes.
- **Information about fire and explosion protection:**  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- **Storage**
- **Conditions for safe storage, including any non-compatibility**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Keep container tightly closed in a dry and well-ventilated place.  
Store only in the original receptacle.
- **Further information about storage in one common storage facility:**  
Store away from alkaline substance and food.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s):** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

Country	Limit value - Eight hours	Limit value - Short term
<b>1 CAS No.: 7439-92-1 Lead</b>		
European Union	0,15 mg/m <sup>3</sup> inhalable aerosol	
France	0,1 mg/m <sup>3</sup> inhalable aerosol	
Germany (AGS)	0,15 mg/m <sup>3</sup> inhalable aerosol; 0,1mg/m <sup>3</sup>	
USA - NIOSH	0,05 mg/m <sup>3</sup>	
USA - OSHA	0,15 mg/m <sup>3</sup>	
United Kingdom	0,025 mg/m <sup>3</sup>	
<b>2 CAS No.: 7664-93-9 Sulphuric acid</b>		
European Union	0,05 mg/m <sup>3</sup> thoracic fraction	
France	0,05 mg/m <sup>3</sup> thoracic fraction	3 mg/m <sup>3</sup>
Germany (AGS)	0,1 mg/m <sup>3</sup> inhalable aerosol;	0,1 mg/m <sup>3</sup> inhalable aerosol;
Germany (DFG)	0,1 mg/m <sup>3</sup> inhalable aerosol;	0,1 mg/m <sup>3</sup> inhalable aerosol;
USA - NIOSH	1 mg/m <sup>3</sup>	
USA - OSHA	1 mg/m <sup>3</sup>	
United Kingdom	1 mg/m <sup>3</sup>	

• **DNELs:** Data not available

• **PNECs:** Data not available

• **Additional information:** The lists valid during the marking were used as basis.

• **Exposure controls**

• **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**

• **Personal protective equipment**

• **General protective and hygienic measures:**

Handle in accordance with good industrial hygiene and safety practice.

Wash thoroughly after handling.

Avoid release to the environment.

Use personal protective equipment as required.

Wash contaminated clothing before reuse.

• **Respiration protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

• **Protection of hands:**



**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

• **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As composition, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**



Safety glasses

## 9 Physical and chemical properties

• **Information on basic physical and chemical properties**

• **Appearance:**

<b>Form</b>	Luquid in box
<b>Color</b>	Black
<b>Odor</b>	Odorless
<b>Odor threshold</b>	Data not available
• <b>pH-value</b>	Data not available
• <b>Change in condition</b>	
<b>Melting point/melting range</b>	Data not available
<b>Boiling point and boiling range</b>	Data not available
• <b>Freezing point</b>	Data not available
• <b>Flash point:</b>	Data not available
• <b>Flammability (solid, gas)</b>	Data not available
• <b>Decomposition temperature</b>	Data not available
• <b>Self-ignition</b>	Data not available
• <b>Danger of explosion</b>	Data not available
• <b>Explosion limits</b>	
<b>Lower:</b>	Data not available
<b>Upper:</b>	Data not available
• <b>Oxidizing properties</b>	Data not available
• <b>Vapor pressure</b>	Data not available
• <b>Density</b>	Data not available
• <b>Relative density</b>	Data not available
• <b>Vapor density</b>	Data not available
• <b>Evaporation rate</b>	Data not available
• <b>Solubility in/Miscibility with</b>	
<b>Water</b>	Data not available
• <b>Partition coefficient (n-octanol/water)</b>	Data not available
• <b>Viscosity</b>	
<b>Dynamic</b>	Data not available



<b>Kinematic</b>	Data not available
<b>Other information</b>	Data not available

### 10 Stability and reactivity

- **Reactivity:** No decomposition if used according to specification.
- **Chemical stability:** Stable under recommended storage conditions.
- **Possibility of hazardous reactions:** Sulphur oxides or harmful fume may be emitted under fire.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** Alkali.
- **Hazardous decomposition products:** No further relevant information available.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**
- **LD/LC50 values relevant for classification:**

1 CAS No.: 7664-93-9 Sulphuric acid

Rat	LC50-inhalation	510mg/m <sup>3</sup> /2H
	LD50-oral	2140mg/kg
Mouse	LC50-inhalation	320mg/m <sup>3</sup> /2H

- **Primary irritant effect**
- **On the skin:** Irritating to skin..
- **On the eye:** Irritating to eyes..
- **Sensitization:** Sensitization effect possible. .
- **Target Organ Toxicity:** No further relevant information available.
- **Repeated dose toxicity:** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** No further relevant information available.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** Data not available
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems**
- **Bio-accumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information**
- **General notes:** Water hazard class 2 (German Regulation) (self-assessment): Hazardous for water.  
 Do not allow the product to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **Other adverse effects:** No further relevant information available.

· **Additional ecological information:** No further relevant information available.

### 13 Disposal consideration

· **Waste treatment methods**

· **Recommendation:**

Most not be disposed with household waste. Do not allow product to reach sewage system.

· **Un-cleaned packaging**

· **Recommendation:** Dispose of contents/container in according to the local/regional/national/international regulation.

### 14 Transport information

· **UN-Number**

ADR, IMDG, IATA	UN2794
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· **UN proper shipping name**

ADR	UN2794 BATTERIES, WET, FILLED WITH ACID, electric storage
IMDG, IATA	BATTERIES, WET, FILLED WITH ACID, electric storage

· **Transport hazard class (es)**

ADR, IMDG, IATA

Class	8 Corrosive substances
Label	8

· **Packing group**

ADR, IMDG, IATA	III
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· **Marine pollution**

No

· **Special precautions for user:**

Warning: Corrosive substances

· **Danger code (Kemler):**

80

· **EMS Number:**

F-A,S-B

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable

· **UN "Model Regulation":**

UN2794 BATTERIES, WET, FILLED WITH ACID, electric storage, 8, III

### 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **MAK (German Maximum Workplace Concentration):**

1 CAS No.: 7439-92-1 Lead

Carcinogen category: 2; Germ cell mutagen group: 3A; (DFG 2006).

2 CAS No.: 7664-93-9 Sulphuric acid

(Inhalable fraction) 0.1 mg/m<sup>3</sup>; Peak limitation category: I(1); Carcinogen category: 4; Pregnancy risk group: C; (DFG 2004).

· **National regulations**

· **Water hazard class:** Water hazard class 2 (German Regulation) (self-assessment): Hazardous for water.

· **Other regulations, limitations and prohibitive regulations**

· **SVHC Candidate list of REACH Regulation Annex XIV Authorisation (18/6/2012):**

None of the ingredients is listed.

· **REACH Regulation Annex XVII Restriction List:**

1 CAS No.: 7439-92-1 Lead

2 CAS No.: 7664-93-9 Sulphuric acid

· **REACH Regulation Annex XIV Authorization List:**

1 CAS No.: 7439-92-1 Lead

· **Chemical safety assessment:** A Chemical Safe Assessment has not been carried out.

## 16 Other information

### Relevant phrase:

H261 In contact with water releases flammable gases

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H332 Harmful if inhaled

H360 May damage fertility or the unborn child

H373 May causes damage to organs

R15 Contact with water liberates extremely flammable gases.

R20/22 Harmful by inhalation and if swallowed

R33 Danger of cumulative effects

R34 Causes burns

R50/53 Very Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R61 May cause harm to the unborn child

R62 Possible risk of impaired fertility

**The contents and format of this SDS are in accordance with REGULATION (EC) No 1272/2008, REGULATION (EC) 453/2010, REGULATION (EC) No 1907/2006, EU Commission Directive 1999/45/EC, 67/548/EEC.**

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· **Abbreviations and acronyms:**

**ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the



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*International Carriage of Dangerous Goods by Road).*

**IMDG:** *International Maritime Code for Dangerous Goods.*

**IATA:** *International Air Transport Association.*

**GHS:** *Globally Harmonized System of Classification and Labeling of Chemicals*

**DNEL:** *Derived No-Effect Level (REACH)*

**PNEC:** *Predicted No-Effect Concentration (REACH)*

**LD50:** *Lethal dose, 50 percent*

**LC50:** *Lethal concentration, 50 percent*

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***End of safety data sheet***