



SDS Report

No. SHAHG1417624801

Date: Sep. 29, 2014

Page 1 of 1

JIANGXI HENGLI TECHNOLOGY BATTERY CO LTD
JiangXi FuZhou Industrial Park Yingbing Ave No.128

SGS Ref. No. : SHHG1409033024SD
Sample Name : VALVE-CONTROLLED SEALED LEAD-ACID BATTERY
Item No. : CB4.5-6, CB4.5-12, CB7-12
End Uses : UPS use
Composition/Ingredient of sample (as per client submission) : See section 3 Composition/information on ingredients on the SDS report
Job Receiving Date : Sep 15, 2014
Last Information Date : Sep 26, 2014
SDS Preparation Period : Sep 15 - 26, 2014

Service Requested : Preparation of Safety Data Sheet (SDS) for the sample with submitted information.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with US Regulations Relating to Labor 29 CFR 1910.1200 (g), and is provided per attached.

Remark:
This sample is likely to be classified as article and is out of scope of a SDS as set out in 29 CFR Part 1910.1200. This SDS is generated for client's reference only.

Signed for and on behalf of
SGS-CSTC Ltd.

Terry Wang
Approved Signatory



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Safety Data Sheet

29 CFR 1910.1200



Printing date 09/26/2014

Reviewed on 09/24/2014

1 Identification

- **Product identifier**
- **Trade name:** VALVE-CONTROLLED SEALED LEAD-ACID BATTERY
- **Recommended use of the chemical and restrictions on use**
- **Application of the substance / the preparation:** UPS use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
JIANGXI HENGLI TECHNOLOGY BATTERY CO LTD
JiangXi FuZhou Industrial Park Yingbing Ave No.128
Tel: 18322992895
E-mail: yanning2345@163.com
- **Further information obtainable from:** JIANGXI HENGLI TECHNOLOGY BATTERY CO LTD
- **Emergency telephone number:**
yanning
Tel: 18322992895
-
- Poison Center**
Tel: +1 800 222 1222
- **Reference Number:** SHHG1409033024SD; SHAHG1417624801
- **Remark:**
This sample is likely to be classified as article and is out of scope of a SDS as set out in 29 CFR Part 1910.1200. This SDS is generated for client's reference only.

2 Hazard(s) identification

- **Classification of the substance or mixture**
Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)
-  GHS08 Health hazard
 - Carc. 1B H350 May cause cancer.
 - Repr. 1A H360 May damage fertility or the unborn child.
 - STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
-  GHS07
 - Acute Tox. 4 H302 Harmful if swallowed.
 - Acute Tox. 4 H332 Harmful if inhaled.
- **Information concerning particular hazards for human and environment:**
The product has to be labeled due to the calculation procedure of OSHA Hazard Communication Standard (29 CFR 1910.1200).
- **Classification system:**
The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.
- **Label elements**
- **Labelling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**
- **Hazard pictograms**



GHS07 GHS08

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Trade name: VALVE-CONTROLLED SEALED LEAD-ACID BATTERY

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- **Signal word** Danger
- **Hazard-determining components of labeling:**
 - lead
 - lead monoxide
 - lead sulphate
- **Hazard statements**
 - H302+H332 Harmful if swallowed or if inhaled.
 - H350 May cause cancer.
 - H360 May damage fertility or the unborn child.
 - H373 May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**
 - 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.
 - P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 - P281 Use personal protective equipment as required.
 - P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
 - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 - P405 Store locked up.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Hazards not otherwise classified (HNOC)** No further relevant information available.

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 phrases refer to section 16.

· Hazardous components		
7439-92-1	lead ⚠ Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	61.0%
1317-36-8	lead monoxide ⚠ Carc. 1B, H350; Repr. 1A, H360; STOT RE 2, H373; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	24.0%
7446-14-2	lead sulphate ⚠ Carc. 1B, H350; Repr. 1A, H360; STOT RE 2, H373; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	14.0%
7664-93-9	sulphuric acid ⚠ Skin Corr. 1A, H314	1.0%

- **Non-Hazardous components** Not applicable.

4 First-aid measures

- **Description of first aid measures**
- **General information:**
 - Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
 - Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
 - In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
 - Immediately rinse with water.
 - If skin irritation continues, consult a doctor.

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- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth with water.
Immediately call a doctor.
Never give anything by mouth to an unconscious person.
- **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

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Special protective equipment and precautions for firefighters** No special measures required.
- **Protective equipment:**
Mouth respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
Ensure adequate ventilation.
Avoid formation of dust.
Keep away from ignition sources.
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Precautions for safe handling:**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Keep away from heat and direct sunlight.
Prevent formation of dust.
Prevent short cut and movement which could lead to short circuits.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from flammable substances.
Store away from oxidizing agents.

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· Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

· Components with limit values that require monitoring at the workplace:

7439-92-1 lead (61%)

PEL (USA) Long-term value: 0.05* mg/m³
*see 29 CFR 1910.1025

REL (USA) Long-term value: 0.05* mg/m³
*8-hr TWA, excl. lead arsenate; See PocketGuideApp.C

TLV (USA) Long-term value: 0.05* mg/m³
*and inorganic compounds, as Pb; BEI

1317-36-8 lead monoxide (24%)

PEL (USA) Long-term value: 0.05 mg/m³
as Pb; See 29 CFR 1910.1025

REL (USA) Long-term value: 0.05* mg/m³
as Pb; *8-hr TWA; See Pocket Guide App. C

TLV (USA) Long-term value: 0.05 mg/m³
as Pb; BEI

7446-14-2 lead sulphate (14%)

PEL (USA) Long-term value: 0.05 mg/m³
as Pb; See 29 CFR 1910.1025

REL (USA) Long-term value: 0.05* mg/m³
as Pb; *8-hr TWA; See Pocket Guide App. C

TLV (USA) Long-term value: 0.05 mg/m³
as Pb; BEI

7664-93-9 sulphuric acid (1%)

PEL (USA) Long-term value: 1 mg/m³

REL (USA) Long-term value: 1 mg/m³

TLV (USA) Long-term value: 0.2* mg/m³
*as thoracic fraction

· Ingredients with biological limit values:

7439-92-1 lead

BEI (USA) 30 µg/100 ml
Medium: blood
Time: not critical
Parameter: Lead

10 µg/100 ml
Medium: blood
Time: not critical
Parameter: Lead (women of child bearing potential)

1317-36-8 lead monoxide

BEI (USA) 30 µg/100 ml
Medium: blood
Time: not critical
Parameter: Lead

7446-14-2 lead sulphate

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BEI (USA)	30 µg/100 ml Medium: blood Time: not critical Parameter: Lead
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- *Additional information: The lists that were valid during the creation were used as basis.*
- *Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure*
- **Appropriate engineering controls:**
*Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Store protective clothing separately.
 See Section 7 for information about design of technical facilities.*
- **Personal protective equipment**
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **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 the product is a preparation of several substances, 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:**



Tightly sealed goggles

9 Physical and chemical properties

- **General Information**

- **Appearance:**

*Form: Solid
 Color: Black & Grey*

- **Odor:** *Odorless*

- **Odour threshold:** *Not available.*

- **pH-value:** *Not available.*

- **Change in condition**

Melting point/Melting range: Not available.

Freezing point: Not available.

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· Boiling point/Boiling range:	Not available.
· Flash point:	Not available.
· Flammability (solid, gaseous):	Not available.
· Auto-Ignition temperature:	Not available.
· Decomposition temperature:	Not available.
· Explosion limits:	
Lower:	Not available.
Upper:	Not available.
· Vapor pressure:	Not available.
· Density:	Not available.
· Relative density	Not available.
· Vapour density	Not available.
· Evaporation rate	Not available.
· Solubility in / Miscibility with Water:	Not available.
· Partition coefficient (n-octanol/water):	Not available.
· Viscosity:	
Dynamic:	Not available.
Kinematic:	Not available.
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No decomposition if used according to specifications.
- **Chemical stability** Stable under recommended storage conditions.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity**

- **LD/LC50 values that are relevant for classification:**

7664-93-9 sulphuric acid

Oral LD50 2140 mg/kg (rat)

- **Primary irritant effect**
- **on the skin:** Irritating effect possible.
- **on the eye:** Irritating effect possible.
- **Sensitization:** Sensitization possible.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

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· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

7439-92-1	lead	2B
1317-36-8	lead monoxide	2A
7446-14-2	lead sulphate	2A
7664-93-9	sulphuric acid	1

· NTP (National Toxicology Program)

7439-92-1	lead	R
1317-36-8	lead monoxide	R
7446-14-2	lead sulphate	R
7664-93-9	sulphuric acid	K

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- Other adverse effects: No further relevant information available.

13 Disposal considerations

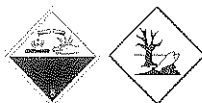
- Waste treatment methods
- Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number	
· DOT, IMDG, IATA	UN2800
· UN proper shipping name	
· DOT	Batteries, wet, non-spillable
· IMDG	BATTERIES, WET, NON-SPILLABLE, MARINE POLLUTANT
· IATA	BATTERIES, WET, NON-SPILLABLE

· Transport hazard class(es)

· DOT



· Class

8 Corrosive substances

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· Label 8

· IMDG



· Class 8 Corrosive substances

· Label 8

· IATA



· Class 8 Corrosive substances

· Label 8

· Packing group

· DOT, IMDG, IATA Not applicable.

· Environmental hazards

· Marine pollutant: Yes
Symbol (fish and tree)

· Special precautions for user

Warning: Corrosive substances

· EMS Number:

F-A,S-B

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

Not applicable.

· Transport/Additional information:

· DOT

· Remarks: Special marking with the symbol (fish and tree).

· UN "Model Regulation":

UN2800, Batteries, wet, non-spillable, ENVIRONMENTALLY
HAZARDOUS, 8

15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances):

7664-93-9 sulphuric acid

· Section 313 (Specific toxic chemical listings):

All ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

7439-92-1 lead

1317-36-8 lead monoxide

7446-14-2 lead sulphate

· Chemicals known to cause reproductive toxicity for females:

7439-92-1 lead

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· Chemicals known to cause reproductive toxicity for males:

7439-92-1 lead

· Chemicals known to cause developmental toxicity:

7439-92-1 lead

· Cancerogenity categories

· EPA (Environmental Protection Agency):

7439-92-1	lead	B2
1317-36-8	lead monoxide	B2
7446-14-2	lead sulphate	B2

· TLV (Threshold Limit Value established by ACGIH):

7439-92-1	lead	A3
1317-36-8	lead monoxide	A3
7446-14-2	lead sulphate	A3
7664-93-9	sulphuric acid	A2

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients is listed.

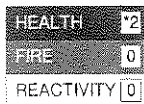
16 Other information

· NFPA ratings (scale 0 - 4)



Health = 3
Fire = 0
Reactivity = 0

· HMIS ratings (scale 0 - 4)



Health = *2
Fire = 0
Reactivity = 0

· Relevant phrases

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H332 Harmful if inhaled.
- H350 May cause cancer.
- H351 Suspected of causing cancer.
- H360 May damage fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.

DISCLAIMER OF LIABILITY :

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· Remark

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· Date of preparation / last revision 09/26/2014 / -

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Abbreviations and acronyms:

- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
- Carc. 1B: Carcinogenicity, Hazard Category 1B
- Carc. 2: Carcinogenicity, Hazard Category 2
- Repr. 1A: Reproductive toxicity, Hazard Category 1A
- STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

End of document