



# Safety Data Sheet

Regulation (EC) No. 1907/2006, 1272/2008

Version: 1.0

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## SDS REPORT

STARLIGHT POWER INDUSTRIAL COMPANY LIMITED

220,Guoning Industrial Park, Golden 1st Road, Nancheng, Dongguan, Guangdong, China

SDS Report No. : CTL1911129021-SDS

Compilation Date : Nov. 22, 2019

Trade Name : Valve Regulated Lead Acid Battery

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 accordance with Regulation (EC) No 1907/2006, 1272/2008, Regulation (EU) No 2015/830 and are provided per attached.

Signed for and on behalf of  
Technical Center:



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

### · 1.1 Product identifier

· Trade name: Valve Regulated Lead Acid Battery

· Registration number: *Data not available*

### · 1.2 Relevant identified uses of the substance or mixture and uses advised against on

· Application of the substance/ mixture: *Supply power*

### · 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

STARLIGHT POWER INDUSTRIAL COMPANY LIMITED

220,Guoning Industrial Park, Golden 1st Road, Nancheng, Dongguan, Guangdong, China

Tel: + 0769-22983203

Email: kevin@starlitepower.com

· Only Representative/other EU contact point: *Information not available*

· Further information obtainable from: STARLIGHT POWER INDUSTRIAL COMPANY LIMITED

### · 1.4 Emergency telephone number

General in EU

112 (Available 24 hours a day)

## SECTION 2: Hazards identification

If the product is damaged, the internal material leakage, the following potential hazards :

Classification according to regulation (EC) 1272/2008:



GHS05 Corrosion

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



GHS08 Health hazard

Repr. 1A H360FD May damage fertility or the unborn child

Lact. H362 May cause harm to breast-fed children

· Classification system:

The classification is according to the latest edition of Regulation 1272/2008, and extended by company and literature data.

### · 2.2 Label elements

· Labeling according to Regulation (EC) No 1272/2008: The product is labelled according to the CLP regulation.

· Hazard pictograms:



GHS05 GHS08

· Signal word: *Danger*

· Hazard statements:

H314 Causes severe skin burns and eye damage

H360FD May damage fertility or the unborn child

H362 May cause harm to breast-fed children

· Precautionary statement:

P201	Obtain special instructions before use.
P260	Do not breathe vapors.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local 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.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

**PBT:** Not applicable

**vPvB:** Not applicable

### SECTION 3: Composition/information on ingredients

· **3.1 Chemical characterization:** Mixture

· **Description:**

Mixture of the substances listed below with nonhazardous additions; For the wording of the listed risk phrases refer to section 16.

· <b>Component:</b>		
CAS No.: 7439-92-1 EC No.: 231-100-4 Index No.: 082-014-00-7	Lead ⚠ Repr. 1A, H360FD; Lact., H362	61.97%
CAS No.: 7664-93-9 EC No.: 2231-639-5 Index No.: 016-020-00-8	Sulfuric acid, 92% ⚠ Skin Corr. 1A, H314	23.88%
CAS No.: 9003-56-9 EC No.: 618-371-8	ABS resins	11.15%
CAS No.: 65997-17-3 EC No.: 266-046-0	Fiberglass	3%

### SECTION 4: First aid measures

**General advice:** IF exposed or concerned: Get medical advice/attention.

**After inhalation:** Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor/if you feel unwell.

**After skin contact:** Take off immediately all contaminated clothing. Rinse skin with water/ shower. Immediately call a POISON CENTER or doctor/physician.

**After eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

**After swallowing:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

· **4.2 Most important symptoms and effects, both acute and delayed:** Causes severe skin burns and eye damage; May damage fertility or the unborn child; May cause harm to breast-fed children.

· **4.3 Indication of any immediate medical attention and special treatment needed:** Treatment according to symptoms, no known

specific medicine.

## SECTION 5: Fire-fighting measures

### ·5.1 Extinguishing media

·*Suitable extinguishing agents:* Use CO<sub>2</sub> , powder, water spray or alcohol resistant foam to extinguish.

·5.2 *Special hazards arising from the substance or mixture:* May produce corrosive vapor.

### ·5.3 Advice for firefighters

**Protective equipment:** Wear an approved positive pressure self-contained breathing apparatus (Comply with EN 133).

## SECTION 6: Accidental release measures

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

Cut off leakage source and collect spillage timely if safe do it; Ensure adequate ventilation; Do not breathing vapor; Use respiratory protective device against the effects of vapor; Wear personal protective equipment; Prevent to contact with eyes and skin; Avoid release to the environment.

### ·6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so; Prevent spillage from entering drains, sewer, basement or confined areas; if the spillage contaminates rivers, lakes or drains inform respective authorities.

### ·6.3 Methods and material for containment and cleaning up:

Neutralize the liquid with alkali, then absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust); Do not use water flush; Ensure good ventilation; Dispose contaminated material as waste according to section 13.

### ·6.4 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 in formation.

## SECTION 7: Handling and storage

### ·7.1 Precautions for safe handling:

Obtain special instructions before use; Do not handle until all safety precautions have been read and understood; Ensure good ventilation/ exhaustion at the workplace; Do not breathing vapor; Wear protective gloves/protective clothing/eye protection/face protection; Use respiratory protective device against the effects of vapor; Prevent to contact with eyes and skin; Avoid release to the environment.

·**Information about fire and explosion protection:** Normal measures for preventive fire protection.

### ·7.2 Conditions for safe storage, including any non-compatibility

·**Requirements to be met by storerooms and receptacles:** Store in a well-ventilated place. Keep cool.

·**Information about storage in one common storage facility:** Store in the original container.

·**Further information about storage conditions:** Store locked up.

·7.3 *Specific end use(s):* Supply power

## SECTION 8: Exposure controls/personal protection

### ·8.1 Control parameters

·**Ingredients with limit values that require monitoring at the workplace:**

Country	Limit value - Eight hours	Limit value - Short term
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7439-92-1 Lead and inorganic compounds (as Pb)		
Austria	0.1 mg/m <sup>3</sup> inhalable aerosol	0.4 mg/m <sup>3</sup> inhalable aerosol
Belgium	0.15 mg/m <sup>3</sup>	-
Denmark	0.05 mg/m <sup>3</sup> inhalable aerosol	0.10 mg/m <sup>3</sup> inhalable aerosol
European Union	0.15 mg/m <sup>3</sup> inhalable aerosol	-
Finland	0.1 mg/m <sup>3</sup>	-
France	0.1 mg/m <sup>3</sup> inhalable aerosol	-
Germany (AGS)	0.15 mg/m <sup>3</sup> inhalable aerosol	-
Hungary	0.15 mg/m <sup>3</sup> inhalable aerosol	0.60 mg/m <sup>3</sup> inhalable aerosol
Ireland	0.15 mg/m <sup>3</sup>	-
Italy	0.15 mg/m <sup>3</sup> inhalable aerosol	-
Latvia	0.005 mg/m <sup>3</sup>	0.01 mg/m <sup>3</sup> 15 minutes reference period
Poland	0.05 mg/m <sup>3</sup>	-
Spain	0.15 mg/m <sup>3</sup> inhalable aerosol	-
Sweden	0.1 mg/m <sup>3</sup> inhalable aerosol; 0.05 mg/m <sup>3</sup> Respirable fraction	-
United Kingdom	0.15 mg/m <sup>3</sup>	-
7664-93-9 Sulphuric acid, mist		
Austria	0.1 mg/m <sup>3</sup> inhalable aerosol	0.2 mg/m <sup>3</sup> inhalable aerosol
Belgium	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>
Denmark	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
European Union	0.05 mg/m <sup>3</sup>	
Finland	0.05 mg/m <sup>3</sup> thoracic fraction	0.1 mg/m <sup>3</sup> thoracic fraction; 15 minutes average value
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; 15 minutes average value
Germany (DFG)	0.1 mg/m <sup>3</sup> inhalable aerosol	0.1 mg/m <sup>3</sup> inhalable aerosol; 15 minutes average value
Hungary	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
Ireland	0.05 mg/m <sup>3</sup>	-
Italy	0.05 mg/m <sup>3</sup>	-
Latvia	1 mg/m <sup>3</sup>	-
Poland	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>
Romania	0.05 mg/m <sup>3</sup>	-
Spain	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>
Sweden	0.1 mg/m <sup>3</sup> Inhalable fraction	0.2 mg/m <sup>3</sup> Inhalable fraction; 15 minutes average value
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.

#### • 8.2 Exposure controls

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

• **Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice; Wash hands and face before breaks and at the end of work;  
See section 7 for information about design of technical facilities.

• **Personal protective equipment**

• **Respiration protection:** Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.

• **Protection of hands:**



#### Protective gloves

Gloves made from butyl rubber Neoprene™ rubber; nitrile rubber (thickness > 0.3mm; breakthrough times up to 480 minutes).

#### · Eye protection:



#### Safety glasses

Protective goggles with side-shields.

#### · Environmental exposure controls:

Control measures must be made in accordance with Community environmental protection legislation.

## SECTION 9: Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

#### · Appearance:

<b>Form</b>	Solid with acid liquid.
<b>Color</b>	Not available
<b>Odor</b>	Odorless
<b>Odor threshold</b>	Not applicable
<b>· pH-value</b>	Not determined
<b>· Change in condition</b>	
<b>Melting point/melting range</b>	Not determined
<b>Boiling point and boiling range</b>	Not determined
<b>· Freezing point</b>	Not determined
<b>· Flash point</b>	>93°C (closed cup, the liquid part)
<b>· Flammability(solid, gas)</b>	Not flammable solid
<b>· Decomposition temperature</b>	Not determined
<b>· Self-ignition</b>	Product is not self-igniting
<b>· Danger of explosion</b>	Product does not present explosive hazard.
<b>· Explosion limits</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>· Oxidizing properties</b>	No oxidation
<b>· Vapor pressure</b>	Not determined
<b>· Density</b>	Not determined
<b>· Relative density</b>	Not determined
<b>· Vapor density</b>	Not determined
<b>· Evaporation rate</b>	Not determined
<b>· Solubility in/Miscibility with</b>	
<b>Water</b>	Part is soluble in water
<b>· Partition coefficient (n-octanol/water)</b>	Not determined
<b>· Viscosity</b>	
<b>Dynamic</b>	Not determined
<b>Kinematic</b>	Not determined
<b>· 9.2 Other information</b>	Data not available

## SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No decomposition if used according to specification.
- **10.2 Chemical stability:** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions:** No further relevant information available.
- **10.4 Conditions to avoid:** High temperature.
- **10.5 Incompatible materials:** Strong acid and strong oxidizing agent.
- **10.6 Hazardous:** Non- hazardous.

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:** No animal test has been done for this product or the components.

7664-93-9 Sulfuric acid		
Guinea pig	LC50-inhalation	18mg/m <sup>3</sup>
Mouse	LC50-inhalation	320mg/m <sup>3</sup> /2H
Rat	LC50-inhalation	510mg/m <sup>3</sup> /2H
	LD50-oral	2140mg/kg
Remark: All the above data are from literature.		

- **Skin corrosion/irritation:** Causes severe skin burns.
- **Serious eyes damage/ irritation:** Causes severe eye damage.
- **Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** May damage fertility or the unborn child; May cause harm to breast-fed children.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information


- **12.1 Toxicity**
- **Aquatic toxicity:** Data not available.
- **12.2 Persistence and degradability:** Data not available.
- **12.3 Bio-accumulative potential:** Data not available.
- **12.4 Mobility in soil:** Data not available.
- **12.5 Results of PBT and vPvB assessment**
- PBT:** Not applicable
- vPvB:** Not applicable
- **12.6 Other adverse effects:** No further relevant information available.
- **12.7 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, even little quantities.

### SECTION 13: Disposal consideration

- **13.1 Waste treatment methods**
- **Recommendation:** Must not be disposed together with household garbage.
- **13.2 Un-cleaned packaging**
- **Recommendation:** Dispose of contents/container in according to the local/regional/national/ international regulation.

### SECTION 14: Transport information

· <b>14.1 UN-Number</b> ADR, RID, AND, IMDG, IATA	UN2794
· <b>14.2 UN proper shipping name</b> ADR, RID, AND, IMDG, IATA	BATTERIES, WET, FILLED WITH ACID, electric storage
· <b>14.3 Transport hazard class (es)</b> ADR, RID, AND, IMDG, IATA	 8 Corrosive substances 8
Class	
Label	
· <b>14.4 Packing group</b> ADR, RID, AND, IMDG, IATA	III
· <b>14.5 Marine pollution</b>	No
· <b>14.6 Special precautions for user</b>	Warning: Corrosive substances
· <b>Danger code (Kemler)</b>	88
· <b>EMS number</b>	F-A,S-B
· <b>14.7 UN "Model Regulation"</b>	UN2794, BATTERIES, WET, FILLED WITH ACID, electric storage, 8, III

### SECTION 15: Regulatory information

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

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

7439-92-1	Lead	2
7664-93-9	Sulfuric acid	4

· **Directive 2012/18/EU**

· **Named dangerous substances-ANNEX I:** None of the ingredients is listed.

· **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 Authorization:**

7439-92-1	Lead	Toxic for reproduction (Article 57c)
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· **REACH Regulation Annex XVII Restriction:**

7439-92-1	Lead	Entry no.: 63
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· **REACH Regulation Annex XIV Authorization List:** None of the ingredients is listed.

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



## SECTION 16: Other information

### · Recommended restriction of use:

#### REACH Annex XVII Restricted-63

Lead CAS No 7439-92-1 EC No 231-100-4 and its compounds

#### Conditions of restriction:

1. Shall not be placed on the market or used in any individual part of jewellery articles if the concentration of lead (expressed as metal) in such a part is equal to or greater than 0,05 % by weight.
2. For the purposes of paragraph 1:
  - (i) 'jewellery articles' shall include jewellery and imitation jewellery articles and hair accessories, including:
    - (a) bracelets, necklaces and rings;
    - (b) piercing jewellery;
    - (c) wrist watches and wrist-wear;
    - (d) brooches and cufflinks;
  - (ii) 'any individual part' shall include the materials from which the jewellery is made, as well as the individual components of the jewellery articles.
3. Paragraph 1 shall also apply to individual parts when placed on the market or used for jewellery-making.
4. By way of derogation, paragraph 1 shall not apply to:
  - (a) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Council Directive 69/493/EEC (\*);
  - (b) internal components of watch timepieces inaccessible to consumers;
  - (c) non-synthetic or reconstructed precious and semiprecious stones (CN code 7103, as established by Regulation (EEC) No 2658/87), unless they have been treated with lead or its compounds or mixtures containing these substances;
  - (d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of minerals melted at a temperature of at least 500 °C.
5. By way of derogation, paragraph 1 shall not apply to jewellery articles placed on the market for the first time before 9 October 2013 and jewellery articles produced before 10 December 1961.
6. By 9 October 2017, the Commission shall re-evaluate this entry in the light of new scientific information, including the availability of alternatives and the migration of lead from the articles referred to in paragraph 1 and, if appropriate, modify this entry accordingly.
7. Shall not be placed on the market or used in articles supplied to the general public, if the concentration of lead (expressed as metal) in those articles or accessible parts thereof is equal to or greater than 0,05 % by weight, and those articles or accessible parts thereof may, during normal or reasonably foreseeable conditions of use, be placed in the mouth by children.

That limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any such accessible part of an article, whether coated or uncoated, does not exceed 0,05 µg/cm<sup>2</sup> per hour (equivalent to 0,05 µg/g/h), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a period of at least two years of normal or reasonably foreseeable conditions of use of the article.

For the purposes of this paragraph, it is considered that an article or accessible part of an article may be placed in the mouth by children if it is smaller than 5 cm in one dimension or has a detachable or protruding part of that size.
8. By way of derogation, paragraph 7 shall not apply to:
  - (a) jewellery articles covered by paragraph 1;
  - (b) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Directive 69/493/EEC;
  - (c) non-synthetic or reconstructed precious and semi-precious stones (CN code 7103 as established by Regulation (EEC) No 2658/87) unless they have been treated with lead or its compounds or mixtures containing these substances;
  - (d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of mineral melted at a temperature of at least 500 °C;
  - (e) keys and locks, including padlocks;
  - (f) musical instruments;
  - (g) articles and parts of articles comprising brass alloys, if the concentration of lead (expressed as metal) in the brass alloy does not exceed 0,5 % by weight;

- (h) the tips of writing instruments;
- (i) religious articles;
- (j) portable zinc-carbon batteries and button cell batteries;
- (k) articles within the scope of:
  - (i) Directive 94/62/EC;
  - (ii) Regulation (EC) No 1935/2004;
  - (iii) Directive 2009/48/EC of the European Parliament and of the Council (\*\*);
  - (iv) Directive 2011/65/EU of the European Parliament and of the Council (\*\*\*)

9. By 1 July 2019, the Commission shall re-evaluate paragraphs 7 and 8(e), (f), (i) and (j) of this entry in the light of new scientific information, including the availability of alternatives and the migration of lead from the articles referred to in paragraph 7, including the requirement on coating integrity, and, if appropriate, modify this entry accordingly.
10. By way of derogation paragraph 7 shall not apply to articles placed on the market for the first time before 1 June 2016.

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**Relevant phrases:**

H314 Causes severe skin burns and eye damage

H360FD May damage fertility or the unborn child

H362 May cause harm to breast-fed children

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**The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.**

**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.

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**Abbreviations and acronyms:**

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

**CAS:** Chemical Abstracts Service (division of the American Chemical Society)

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

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

**PBT:** Persistent, Bio accumulative and Toxic

**SVHC:** Substance of Very High Concern

**LD50:** Lethal dose, 50 percent

**LC50:** Lethal concentration, 50 percent

**Skin Corr. 1A:** Skin corrosion/irritation, hazard category 1A

**Repr. 1A:** Reproductive toxicity, hazard category 1A

**Lact.:** Reproductive toxicity, effects on or via lactation

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**End of safety data sheet**