



# Material Safety Data Sheet

## Section 1- Chemical Product & Company Identification

**Product Name:** Sealed Lead Acid Battery

**Manufacture:** SHENZHEN MOTOMA POWER CO., LTD

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**Item Code:** NCT17052811M1-1

## Section 2- Hazards Identification

**Hazard class and label elements of the substance according to GHS:**

| GHS hazard class               |  |           |
|--------------------------------|--|-----------|
| <b>Health hazard(s)</b>        | Skin corrosion/irritation                              | category1 |
|                                | Reproductive toxicity                                  | category1 |
|                                | Specific target organ toxicity, repeated exposure      | category2 |
| <b>Environmental hazard(s)</b> | Hazardous to the aquatic environment, long-term hazard | category1 |
| <b>Pictogram</b>               |  |           |

|                                 |   |
|---------------------------------|---|
| <b>Signal</b>                   | Danger  |
| <b>Hazard statement(s)</b>      | H314 Causes severe skin burns and eye damage<br>H360 May damage fertility or the unborn child<br>H373 May cause damage to organs through prolonged or repeated exposure<br>H410 Very toxic to aquatic life with long lasting effects  |
| <b>Precautionary statements</b> |   |
| <b>Prevention</b>               | P260 Do not breathe dust/fume/gas/mist/vapours/spray.<br>P264 Wash thoroughly after handling.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves/protective clothing/eye protection/face protection.  |
| <b>Response</b>                 | P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.<br>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].<br>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.<br>Remove contact lenses, if present and easy to do. Continue rinsing.<br>P308+P313 IF exposed or concerned: Get medical advice/ attention.<br>P314 Get medical advice/attention if you feel unwell.<br>P363 Wash contaminated clothing before reuse.<br>P391 Collect spillage. |
| <b>Storage</b>                  | P405 Store locked up.   |
| <b>Disposal</b>                 | P501 Dispose of contents/container in accordance with local/regional/national/international regulations   |

### Section 3- Composition/Information on Ingredients

| Hazardous Ingredients<br>(Chemical Name) | Concentration or<br>concentration ranges (%) | CAS Number |
|--|--|------------|
| Lead Dioxide                             | 1309-60-0                                    | 32~35      |
| Lead                                     | 7439-92-1                                    | 31.1~32.2  |
| Dilute Sulfuric acid                     | 7664-93-9                                    | 20~22      |
| ABS plastic                              | 9003-56-9                                    | 13~15      |
| Glass Fiber                              | 60676-86-0                                   | 2~3        |
| Epoxy resin                              | N/A  | 1.5~2.0    |
| other                                    | N/A  | 0.4~0.6    |

Labeling according to EC directives.

No symbol and risk phrase are required.

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

### Section 4- First Aid Measures

|                           |   |
|---------------------------|---|
| <b>After skin contact</b> | Take off the contaminated clothing and shoes immediately.<br>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<br>and consult a physician.   |
| <b>After ingestion</b>    | Do Not induce vomiting. Never give anything by mouth to an<br>unconscious person. Rinse mouth with water. Consult a<br>physician. |
| <b>After inhalation</b>   | If breathed in, move person into fresh air. If not breathing, give<br>artificial respiration. Consult a physician.                |

## Section 5- Fire Fighting Measures

|   |   |
|---|---|
| <b>Hazardous products of combustion</b> | Lead oxides, sulphur oxides.  |
| <b>Extinguishing method</b>             | Use Dry Chemical powder, foam or Carbon dioxide for extinction.         |
| <b>Special protective equipment</b>     | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section 6- Accidental Release Measures

|  |   |
|--|---|
| <b>Personal protective measures</b>          | Wear acid-resistant clothing, boots, gloves, and face shield.   |
| <b>Environmental protective measures</b>     | Prevent the spills inflow to a sewer and then place in suitable container.  |
| <b>Methods for taking in and cleaning up</b> | Contain/absorb small spills with dry sand, earth, and vermiculite.<br><br>Do not use combustible materials. If possible, carefully neutralize spilled electrolyte with soda ash, sodium bicarbonate, lime, etc. |

## Section 7- Handling and Storage

|                 |   |
|-----------------|---|
| <b>Handling</b> | Use personal protective equipment. Ensure adequate ventilation. Keep away from sources of ignition – No smoking.<br>Avoid contacting with skin and eye. |
| <b>Storage</b>  | Store in a cool (10~40°C), dry area away from combustible materials. Do not store in sealed, unventilated areas. Avoid overheating and overcharging.    |

**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 and properties</b>                              | Outside: Black plastic cement shell<br>Inside: Sulfuric acid, colorless liquid. |
| <b>Odor</b>   | Odorless  |
| <b>Odor threshold</b>   | No data available   |
| <b>PH value</b>   | No data available   |
| <b>Melting point/freezing point</b>                           | No data available   |
| <b>Boiling Point, initial boiling point and Boiling range</b> | No data available   |
| <b>Flash Point</b>  | No data available   |
| <b>Evaporation Rate</b>                                       | No data available   |
| <b>Flammability</b>   | No data available   |
| <b>Upper explosive limit</b>                                  | No data available   |
| <b>Lower explosive limit</b>                                  | No data available   |
| <b>Vapor Pressure</b>   | No data available   |
| <b>Vapor Density</b>  | No data available   |
| <b>Density/relative</b>                                       | No data available   |

|  |                   |
|--|-------------------|
| <b>density</b>                             |                   |
| <b>Solubility in Water</b>                 | No data available |
| <b>Octanol/water partition coefficient</b> | No data available |
| <b>Auto-ignition temperature</b>           | No data available |
| <b>Decomposition temperature</b>           | No data available |
| <b>Viscosity</b>                           | No data available |

## Section 10 – Stability and Reactivity

|  |  |
|--|--|
| <b>Reactivity</b>                        | No data available  |
| <b>Chemical stability</b>                | Stable under the condition recommended.  |
| <b>Possibility of hazardous reaction</b> | No data available  |
| <b>Conditions to avoid</b>               | Sparks and other sources of ignition. Prolonged overcharge.<br>Fire or explosion hazard due to possible hydrogen gas generation.   |
| <b>Incompatible materials</b>            | Bases, Halides, Organic materials, Carbides, fulminates, Nitrates, picrates, Cyanides, Chlorates, alkali halides, Zinc salts, permanganates, Hydrogen peroxide, Azides, Perchlorates, Nitromethane, phosphorous, cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorous(III) oxide, Powdered metals. |
| <b>Hazardous decomposition products</b>  | No data available  |

## Section 11 – Toxicological Information

|   |  |
|---|--|
| <b>Acute toxicity</b>                                     | Sulfuric Acid: LD50(rat, Oral) 2140mg/kg; LC50(rat, Inhalation, 2h) 0.51 mg/L  |
| <b>Skin corrosion/irritation</b>                          | No data available  |
| <b>Serious eye damage/eye irritation</b>                  | No data available  |
| <b>Respiratory or skin sensitization</b>                  | No data available  |
| <b>Germ cell mutagenicity</b>                             | No data available  |
| <b>Carcinogenicity</b>                                    | Lead ( CAS No. 7439-92-1 ) : Group 2B Possibly carcinogenic to humans ;<br>Sulfuric acid ( CAS No. 7664-93-9 ) : Group 1 Carcinogenic to humans ( IARC ) ;<br>Lead dioxide ( CAS No. 1309-60-0 ) : No data available ; |
| <b>Reproductive toxicity</b>                              | No data available  |
| <b>Specific target organ toxicity – single exposure</b>   | No data available  |
| <b>Specific target organ toxicity – repeated exposure</b> | No data available  |
| <b>Aspiration hazard</b>                                  | No data available  |

## Section 12-Ecological Information

|                                      |                   |
|--------------------------------------|-------------------|
| <b>Toxicity</b>                      | No data available |
| <b>Persistence and Degradability</b> | No data available |



|                                  |   |
|----------------------------------|---|
| <b>Bioaccumulative potential</b> | No data available                                     |
| <b>Mobility in soil</b>          | No data available                                     |
| <b>Other adverse effects</b>     | Very toxic to aquatic life with long lasting effects. |

## Section 13 – Disposal Considerations

|                                 |   |
|---------------------------------|---|
| <b>Property of waste:</b>       | Neutralized acid may be flushed down the sewer. Spent batteries must be treated as hazardous waste and disposed of according to local state, and federal regulations. A copy of this material safety date must be supplied to any scrap dealer or secondary smelter with battery. |
| <b>Methods of disposal:</b>     | Dispose of in a manner consistent with federal, state, and local regulations.   |
| <b>Precautions of disposal:</b> | No data available.  |

## Section 14 – Transport Information

The battery has passed the Vibration test, Pressure differential test, and Leakage test at 55°C according to “Recommendations on the Transport of Dangerous Goods Model Regulations” (20th revised edition) Chapter 3.3, Article 238.

IATA: The battery is NOT RESTRICTED according to IATA DGR 59<sup>th</sup> Edition special provision A67.

IMO: The battery is NOT RESTRICTED according to IMDG CODE (inc Amdt 38-16) special provision 238.

## Section 15 – Regulatory Information

| Component     | CHINA | TSCA | ENCS | EINECS |
|---------------|-------|------|------|--------|
| Lead          | √     | √    | √    | √      |
| Sulfuric acid | √     | √    | √    | √      |
| Lead dioxide  | -     | -    | √    | √      |

**Note 1:**

CHINA - China Inventory of Existing Chemical Substances ( IECSC )

TSCA - United States Inventory of Toxic Substances Control Act Chemical Substances ( TSCA )

ENCS - Japan Existing and New Chemical Substances ( ENCS )

EINECS - European Inventory of Existing Commercial Chemical Substances ( EINECS )

**Note 2:**

"√" Indicates that the substance included in the regulations

"-" That no data or included in the regulations

## Section 16 – Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, concorde makes 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. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.

\*\*\*\*\*End of report\*\*\*\*\*