

MSDS Report

Prepared For :	SHENZHEN MOTOMA POWER CO., LTD No.321, 3/F, Building A, 5th. Zone, Honghualing Industrial Zone, Taoyuan Road, Nanshan, ShenZhen, China.
Product Name:	Sealed Lead Acid Battery
Model :	4V,6V,12V ; 0.5AH-250AH
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Report No.:	NCT17052811M1-1

Written by: Lisa LiuApproved: [Signature]Inspected by: Hely WangDate: 2018.01.04

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

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

Section 3- Composition/Information on Ingredients

Hazardous Ingredients (Chemical Name)	Concentration or 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

After skin contact	Take off the contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
After eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
After ingestion	Do Not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
After inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Section 5- Fire Fighting Measures

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

Section 6- Accidental Release Measures

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

Section 7- Handling and Storage

Handling	Use personal protective equipment. Ensure adequate ventilation. Keep away from sources of ignition – No smoking. Avoid contacting with skin and eye.
Storage	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

Engineering Controls	Safety shower and eye bath. Mechanical exhaust required.
Respiratory protection	Use a full-face supplied air respirator.
Eye protection	Wear chemical goggles.
Hand Protection	Wear impervious chemical resistant gloves.
Body protection	Protective work clothing.

Section 9- Physical and Chemical Properties

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

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

Section 10 – Stability and Reactivity

Reactivity	No data available
Chemical stability	Stable under the condition recommended.
Possibility of hazardous reaction	No data available
Conditions to avoid	Sparks and other sources of ignition. Prolonged overcharge. Fire or explosion hazard due to possible hydrogen gas generation.
Incompatible materials	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.
Hazardous decomposition products	No data available

Section 11 – Toxicological Information

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

Section 12-Ecological Information

Toxicity	No data available
Persistence and Degradability	No data available

Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	Very toxic to aquatic life with long lasting effects.

Section 13 – Disposal Considerations

Property of waste:	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.
Methods of disposal:	Dispose of in a manner consistent with federal, state, and local regulations.
Precautions of disposal:	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 59th 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*****