



Material Safety Data Sheet

MSDS Code: EBO1501056-M147
SEALED LEAD ACID BATTERY

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1. Identification Of Substance

Product Details

Product Name: SEALED LEAD ACID BATTERY
Manufacturer/Supplier By: CSPOWER BATTERY TECH CO., LTD
Building B, Huafeng Business Park, Baoan, Shenzhen City, China
Tel: +86-755-32927059
Emergency Tel: +86-(0) 13632715705
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2. Composition/Data On Components

COMPONENT	CAS #	% by wt.
Electrode plate: Lead	7439-92-1	73.2%
Electrolyte: Dilute sulphuric acid	7664-93-9	8.5%
Separator: Fiberglass	65997-17-3	11.7%
Battery shell: ABS	9003-56-9	6.6%

3. Hazards Identification

Hazard description:



Harmful

Do not short circuit, puncture, incinerate, crush, immerse, force discharge or expose to temperatures above the declared operating temperature range of the product. Risk of fire or explosion.

Under normal conditions of use, the electrode materials and liquid electrolyte they contain are not exposed to the outside, provided the battery integrity is maintained and seals remain intact. Risk of exposure only in case of abuse (mechanical, thermal, electrical) which leads to the activation of safety valves and/or the rupture of the battery containers. Electrolyte leakage, electrode materials reaction with moisture/water or battery vent/explosion/fire may follow, depending upon the circumstances.

4. First aid Measures

Eyes: Irrigate thoroughly with water for at least 15 minutes. Obtain medical attention.
Skin: Wash off skin thoroughly with water. Remove contaminated clothing and wash



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	before reuse. In severe cases obtain medical attention.
Inhalation:	Remove from exposure, rest and keep warm. In severe cases obtain medical attention.
Ingestion:	Wash out mouth thoroughly with water and give plenty of water to drink. Obtain medical attention.
Further treatment:	All cases of eye contamination, persistent skin irritation and casualties who have swallowed this substance or been affected by breathing its vapours should be seen by a Doctor.

5. Fire Fighting Measures

Extinguishing Media:	Water, CO ₂ .
Special Fire-Fighting Procedures:	Self-contained breathing apparatus.
Unusual Fire and Explosion	
Hazards:	Battery may vent when subjected to excessive heat-exposing battery contents.
Hazardous Combustion Products:	Carbon monoxide, carbon dioxide and other irritating and toxic fumes.

6. Accidental Release Measures

Steps to be Taken in case Material

is Released or Spilled:	If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the battery to cool and vapors to dissipate. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.
Waste Disposal Method:	It is recommended to discharge the battery to the end, handing in the abandoned batteries to related department unified, dispose of the batteries in accordance with approved local, state, and federal requirements. Consult state environmental protection agency and/or federal EPA.

7. Handling And Storage

The batteries should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container.

Do not short circuit terminals, or forced over-discharge, throw to fire.

Do not crush or puncture the battery, or immerse in liquids.

Precautions to be taken in handling and storing



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Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided.

Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.

Other Precautions

Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures.

8. Exposure Controls And Personal Protection





Respiratory protection: If the battery leaks, the need for full ventilation.

Hand Protection: Under normal use, do not.

Personal Protection: Under normal use, do not.

Other protection: Under normal use, do not.

If the battery leaks, must wear the following protection products.

	Respiratory protection	In all fire situations, use self-contained breathing apparatus.
	Hand protection	In the event of leakage wear gloves.
	Eye protection	Safety glasses are recommended during handling.
	Other	In the event of leakage, wear chemical apron.

9. Physical And Chemical Properties

Form: Battery

Color: Multicolor

Odor: Odorless

pH: Not applicable unless individual components exposed.

Flash point: Not applicable unless individual components exposed.

Flammability: Not applicable unless individual components exposed.



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Relative density: Not applicable unless individual components exposed.
Solubility (water): Not applicable unless individual components exposed.
Solubility (other): Not applicable unless individual components exposed.

10. Stability And Reactivity

Stability: Stable
Hazardous Decomposition
Products: N/A.
Conditions to Avoid: Heating, mechanical abuse and electrical abuse.
Materials to Avoid: If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalis, halogenated hydrocarbons.

11. Toxicological Information

Inhalation, skin contact and eye contact are possible when the battery is opened.
Exposure to internal contents, the corrosive fumes will be very irritating to skin, eyes and mucous membranes.
Overexposure can cause symptoms of non-fibrotic lung injury and membrane irritation.

12. Ecological Information

Environmental Impact: Proper use and disposal of the battery will not harm the environment.
Dispose of the battery, away from water, rain and snow.

13. Disposal Considerations

Appropriate Method of Disposal of
Substance or Preparation: Dispose of the batteries in accordance with approved local, state, and federal requirements. Consult state environmental agency and/or federal EPA.

14. Transport Information

All Lead Acid Battery are identified as "Battery, Electric Storage, Wet, Nonspillable" when transported by air, sea or by land transportation. The battery(s) must be identified as above on the Bill of Lading and properly packaged with their terminals protected from short circuit. NA or UN numbers do not apply. Lead Acid Battery warning label identifies each battery as NON SPILLABLE.

Lead-acid batteries are classified as "Nonspillable" for the purpose of transportation by DOT, and IATA/ICAO as result of passing the Vibration and Pressure Differential Test described in DOT [49 CFR 173.159 (f)] and IATA/ICAO [Special Provision A67]. CSB seal lead-acid batteries can be safely transported on deck, or under deck stored on either a passenger or cargo vessel as result of passing the Vibration or Pressure Differential Tests as described in the IMDG regulations (Special Article 238).



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To transport these batteries as "Nonspillable" they must be shipped in a condition that would protect them from short-circuits and be securely packaged so as to withstand conditions normal to transportation by a consumer, in or out of a device, they are unregulated thus requiring no additional special handling or packaging.

15. Regulations

Law Information

《Dangerous Goods Regulation》

《Recommendations on the Transport of Dangerous Goods Model Regulations》

《International Maritime Dangerous Goods》

《Technical Instructions for the Safe Transport of Dangerous Goods》

《Classification and code of dangerous goods》

OSHA Hazard Communication Standard Status

Toxic Substances Control Act (TSCA) Status

SARA Title III

RCRA

In accordance with all Federal, State and Local laws

16. Other Information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

