

Material Safety Data Sheet

SECTION 1: PRODUCT IDENTIFICATION

January 16, 2016

Chemical/Trade name (as used on label)	Chemical Family/Classification
SEALED RECHARGEABLE BATTERY	Valve Regulated Storage Battery

SECTION 2: CONTACT

Manufacturer's Name:	Address:
FuZhou Consent Battery Co., Ltd.	#58 LUOXING MIDDLE ROAD FUZHOU CHINA Tel: 86-591-83957682 Fax: 86-591-83957680
Consent Battery Safety Department	Tel: 0591-83957682

SECTION 3: HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Material	%by Wt.	CAS Number	(Air Exposure Limits(ug/m3))		
			OSHA	AGGIH	NIOSH
Lead	65	7439-92-1	50	150	100
Lead Oxide	28	1309-60-0	50	150	100
Electrolyte(Sulfuric Acid)	4	7664-93-9	1	1	1

SECTION 4: PHYSICAL/CHEMICAL CHARACTERISTIC DATA

Material is solid at normal temperatures.

Electrolyte

Boiling Point:	230°F/110°C	Melting Point	Lead 327.4°C
Specific Gravity:	1.215-1.350	Vapor Density	Not determined
% Volatiles By Weight:	Not Applicable	Vapor Pressure	Not determined
Solubility in Water	100%(electrolyte)	Evaporation Rate	Not determined

Appearance and Odor:

Electrolyte is a clear liquid with an acidic order.

SECTION 5: HEALTH HAZARD INFORMATION

Under normal operating conditions, the internal material will not be hazardous to your health. Only internally exposed material during production or case breakage or extreme heat (fire) may be hazardous to your health.

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XIAMEN XIANGYOU INTERNATIONALTRADING CO.,LTD

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● **SECTION 6: ROUTES OF ENTRY:**

- Inhalation: Acid mist from formation process may cause respiratory irritation
- Skin Contact: Acid may cause irritation, burns and/or ulceration
- Skin Absorption: Not a significant route of entry.
- Eye Contact: Acid may cause severe irritation, burns, cornea damage and/or blindness
- Ingestion: Acid may cause severe irritation of mouth, throat, esophagus and stomach

● **SECTION 7: SIGNS AND SYMPTOMS OF OVER EXPOSURE:**

Acute Effects: Over exposure to Lead may lead to loss of appetite, constipation, sleeplessness and fatigue. Over exposure to acid may lead to skin irritation, corneal damage of the eyes and upper respiratory system.

Chronic Effects: Lead and its components may cause damage to kidneys and nervous system. Acid and its components cause lung damage and pulmonary conditions.

Potential to Cause Cancer: The International Agency for Research on Cancer has classified "strong inorganic acid mist containing sulfuric acid" as a Category 1 carcinogen, a substance that is carcinogenic to humans. This classification does not apply to liquid forms of sulfuric acid or sulfuric acid solutions contained within a battery. Inorganic acid mist is not generated under normal use of this product. Misuse of the product, such as overcharging, may however result in the generation of sulfuric acid mist.

● **SECTION 8: EMERGENCY AND FIRST AID PROCEDURES:**

- Inhalation: Remove from exposure and apply oxygen if breathing is difficult
- Skin: Wash with plenty of soap and water. Remove any contaminated clothing
- Eyes: Flush with plenty of water immediately for at least 15 minutes. Consult a physician
- Ingestion: Consult a physician immediately

SECTION 9: FIRE AND EXPLOSION HAZARD DATA:

Flash Point: Hydrogen=259°C

Auto ignition Temperature: Hydrogen=580°C

Extinguishing Media: Dry chemical, foam, CO2

Unusual Fire and Explosion Hazards: Hydrogen and oxygen gases are produced in the cells during normal battery operation (hydrogen is flammable and oxygen supports combustion). These gases enter the air through the vent caps. To avoid the chance of a fire or explosion, keep sparks and other sources of ignition away from the battery.

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SECTION 10: REACTIVITY DATA:

Stability:

Stable

Conditions to Avoid:

Sparks and other sources of ignition

Incompatibility:

Lead/lead compounds: Potassium, carbides, sulfides, peroxides, phosphorus, sulfur.

Battery electrolyte (acid): Combustible materials, strong reducing agents, most metals, carbides, organic materials, chlorates, nitrates, and fulminates.

Hazardous Decomposition Products:

Lead/lead compounds: Oxides of lead and sulfur.

Battery electrolyte (acid): Hydrogen, sulfur dioxide, and sulfur trioxide.

Conditions to Avoid:

High temperature. Battery electrolyte (acid) will react with water to produce heat. Can react with oxidizing or reducing agents.

SECTION 11: CONTROL MEASURES:

Engineering Controls:

Store lead acid batteries with adequate ventilation. Room ventilation is required for batteries utilized for standby power generation. Never recharge batteries in an unventilated, enclosed space.

Work Practices:

Do not remove vent caps. Follow shipping and handling instruction that are applicable to the battery type. To avoid damage to terminals and seals, do not double-stack industrial batteries.

SECTION 12: PERSONAL PROTECTIVE EQUIPMENT:

Respiratory Protection:

None required under normal handling conditions. During battery formation (high-rate charge condition), acid mist can be generated which may cause respiratory irritation. Also, if acid spillage occurs in a confined space, exposure may occur. If irritation occurs, wear a respirator suitable for protection against acid mist.

Eyes and Face:

Chemical splash goggles are preferred. Also acceptable is a chemical face shield worn over safety glasses.

Hands, Arms, Body:

Vinyl coated gloves with rough finish are preferred.

Other Special Clothing and Equipment:

Safety shoes are recommended when handling batteries. All footwear must meet requirements of ANSI Z41.1-Rev.1972.

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SECTION 13: PRECAUTIONS FOR SAFE HANDLING AND USE:

Hygiene Practices:

Following contact with internal battery components, wash hand thoroughly before eating, drinking, or smoking.

Respiratory Protection:

Wear safety glasses. Do not permit flames or sparks in the vicinity of battery(s). If battery electrolyte (acid) comes in contact with clothing, discard clothing.

Protective Measures:

Remove combustible materials and all sources of ignition. Cover spills with soda ash (sodium carbonate) or other suitable neutralizing agent. Dispose of hazardous waste properly.

Wear acid-resistant boots, chemical face shield, chemical splash goggles, and acid-resistant gloves. **Do not release un-neutralized acid.**

Waste Disposal Method:

Battery electrolyte (acid): Neutralize as above for a spill, collect residue, and place in a drum or suitable container.

Dispose as hazardous waste. **Do not flush lead contaminated acid to sewer.**

Batteries: Send to Lead smelter for reclamation following applicable government, province and local regulations. Product can be recycled along with automotive (SLI) lead acid batteries.

Other Handling and Storage Precautions:

None Required.

SECTION 14: NFPA HAZARD RATING:

Sulfuric Acid:

Flammability (Red)	=	0
Health (Blue)	=	3
Reactivity (Yellow)	=	2

SECTION 15: DEPARTMENT OF TRANSPORTATION AND INTERNATIONAL SHIPPING REGULATIONS:

Proper Shipping Name	Battery or SEALED RECHARGEABLE BATTERY
PRC. DOT(PRC Department of Transportation)	Unregulated
IATA(International Air Transportation Association)/ICAO(International Civil Aviation Administration)	Unregulated
IMO(International Maritime Dangerous Goods)	Unregulated

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SECTION 16: Comments:

Consent Sealed Rechargeable batteries are classified as “non-spillable” for the purpose of transportation.

Consent Sealed Rechargeable batteries can be safely transported on deck, or under deck stored on either a passenger or cargo vessel as result of passing the Vibration and Pressure Differential Tests as described in the IMDG regulations.

To transport these batteries as “non-spillable” 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.