

MATERIAL SAFETY DATA SHEET

SECTION 1: Chemical Product & Company Information

Name: STATIONARY BATTERY
Manufacturer's Name: SHANDONG SACRED SUN POWER SOURCES CO.LTD
Street Address: NO.1 SHENGYANG ROAD
City, State, Zip: QUFU CITY SHANDONG PROVINCE 273100 CHINA Phone
Number: +86-537-4428481
Version: 2.0

SECTION 2: Composition/Information on Ingredients

COMPONENTS	PERCENT	OSHA	ACGIH	OTHER LIMITS	CAS NUMBER
Hazardous Components	PEL	TLV			
	1% or greater				
Carcinogens	0.01 % or greater				
METALLIC METAL ALLOY	25.5%	0.05mg/m ³	.05 mg/m ³	NONE	7439-92-1
LEAD SULFATES	18.2%	0.05mg/m ³	.05 mg/m ³	NONE	7439-92-1
LEAD OXIDES	18.0%	0.05mg/m ³	.05 mg/m ³	NONE	7439-92-1
POLYPROPYLENE CASE	MTL 6.4%				
SEPARATORS	3.5%	SULFURIC ACID (H ₂ SO ₄)	5.2%	1.0 mg/m ³	1.0
	mg/m ³	NONE	7664-93-9	WATER	19.2%

SECTION 3: Hazards Identification

Flash Point: Not Combustible NFPA WARNING: 1
Auto Ignition Temperature N/A Flammability Limits in Air % by Volume: N/A
Extinguishing Media: Dry Chemical Carbon Dioxide, Water Fog, Water
Special Fire Fighting Procedures: Sulfuric Acid Fumes, Sulfur Dioxide Gas or Carbon Monoxide may be released when acid decomposes. Wear NIOSH approved self contained breathing apparatus. Unusual Hazards: Water applied to sulfuric acid generates heat and causes acid to spatter. Wear full-cover acid resistant clothing. Sulfuric acid reacts violently with metals, nitrates, chlorates, carbides, fulminates, picrates and other organic materials. Reacts with most metals to yield explosive/flammable hydrogen gas. This reaction is intensified when sulfuric acid is diluted with water to form battery electrolyte.

SECTION 4: First Aid Measures

Leaving patients from pollute area, washing wither contacted with eyes or skin, then hospitalize.

SECTION 5: Fire Fighting Measures

Put or fire with dry sands, CO₂

TO avoid risk of fire or explosion ,keep sparks or other sources of ignition away from batteries .Do not allow metallic materials to simultaneously contact negative and positive terminals of cells and batteries.Follow manufacture's instructions for installation and service.

SECTION 6: Accidental Release Measures

Putting on safeguard while manage ,collect leaks in airtight container

SECTION 7: Handling and Storage

Storing in cool, dry, ventilated house

SECTION 8: Exposure Controls/Personal Protection

Respiratory Protection: Sulfuric Acid Mist-Mask with filter approved for acid mist.

Ventilation: Local exhaust: Room air change four times per hour.

Protective Gloves: Rubber

Eye Protection: Goggles, Face Shield

Other Protective Equipment: Rubber Apron, Acid Resistant Clothing Recommended

Work Hygienic Practices: Wash thoroughly after handling

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Components Density Melting Point Solubility (in H₂O) Odor Appearance

Lead 11.34 327.4oC None None Silver-Gray Metal

Lead Sulfate 6.2 1170oC 40 mg/l (15oC) None White Powder

Lead Dioxide 9.4 290oC None None Brown Powder

Sulfuric Acid About 1.3(25℃) About 114oC (Boiling) 100% Acidic Clear Colorless Liquid

Fiberglass Separator N/A N/A Slight Toxic White Fibrous Glass Membrane

Container (ABS or PP) N/A N/A NONE No Odor Solid Plastics

SECTION 10: STABILITY AND REACTIVITY

Stability: STABLE

CONDITIONS TO AVOID: Charging and over-charging without proper ventilation.

Incompatibility: AVOID COMBUSTIBLES, ORGANIC MATERIALS, AND STRONG REDUCING AGENTS.

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH HAZARDS - Acute: Eyes, Skin, Respiratory System & Digestive System

Chronic: Eyes, Skin, Respiratory System & Digestive System

Signs and Symptoms of Exposure: Irritation of Exposed Area, Burns, and Respiratory Problems

No possibility of over exposure of lead will occur unless battery is destroyed.

MEDICAL CONDITIONS GENERALLY:

Aggravated by Exposure: Exposure to mist may cause lung damage & aggravate pulmonary conditions.

SECTION 12: ECOLOGICAL INFORMATION

All care should be taken to protect the environment from any adverse impact by stationary batteries or from the batteries ingredients.

SECTION 13: DISPOSAL CONSIDERATIONS

stationary sealed battery are restricted land disposal objects. All spent batteries should be properly Recycled to a permitted Secondary Lead Smelter.

All battery parts should be properly recycled.

No whole spent lead-acid battery should be land-filled or placed in house hold garbage.

SECTION 14 : TRANSPORT INFORMATION

Proper shipping name : stationary sealed battery CAS NO: 7439-92-1

This product is not dangerous product subject to IMO TMDG CODE, its package and transport conforms to the requirement of sea transport.

SECTION 15 : REGULATORY INFORMATION

REGULATORY INFORMATION: Those ingredients in stationary sealed batteries listed above are not subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Re-authorization Act, if the sealed batteries are in storage and have no potential to leak.

SECTION 16 : Other Information

SPS Batteries having met the related conditions are EXEMPT from hazardous goods regulations for the purpose of transportation by DOT, and IATA/ICAO, and therefore are unrestricted for transportation by any means. For all modes of transportation, each battery outer package is labeled "NON-SPILLABLE".