

Address

MSDS REPORT

Applicant : Xiamen Songli Import And Export Co.,Ltd.

19th Floor, Rongxinsheng Operation Centre, Guanyinshan, Xiamen

City, Fujian Province, China

Name of sample : Lead-acid battery

Model No YTZ5S-BS

Receiving Date : 2019.12.20

Test Date : 2019.12.20~2019.12.27

Test Location : Guangzhou battery laboratory

Signed for and on a half of

Shenzhen United Testing Technology Co.,Ltd

Liuze

Approved Signatory

2019.12.30

Signatory Date



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Section 1-Chemical Product and Company Identification

Product Name	Lead-acid battery
Model No	YTZ5S-BS
Specification	12V, 4.5Ah
Manufacturer	Jinjiang Songli Battery Co.,Ltd.
Address	Songshan Development Zone, Dongshi Town, Jinjiang City, Fujian
	Province,China
Emergency	0592-3255627
Telephone	12 121 121
Email	doc@songligroup.com

Section 2- Hazards Identification

Preparation hazards	Not dangerous with normal use. Do not dismantle, open or shred	
and classification	Lead-acid battery. Exposure to the ingredients contained within or their	
	ingredients products could be harmful.	
Appearance, Color,	Solid object with no odor, no color.	
and Odor	Solid object with no odor, no color.	
Primary Route(s) of	The chemicals are contained in an airtight shell. Risk of exposure occurs	
Exposure	only if the battery is mechanically, thermally or electrically abused to	
121	the point of compromising the enclosure. If this occurs, exposure to the	
	electrolyte solution contained within can occur by Inhalation, Ingestion,	
ia.	Eye contact and Skin contact	
Potential Health	ACUTE (short term): see Section 8 for exposure controls in the event	
Effects	that this battery has been ruptured, the electrolyte solution contained	



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6.	
121	within the battery would be corrosive and can cause burns.
	Inhalation: Inhalation of materials from a sealed battery is not an
121	expected route of exposure. Vapors or mists from a ruptured battery may
	cause respiratory irritation.
7. 5	Ingestion: Swallowing of materials from a sealed battery is not an
	expected route of exposure. Swallowing the contents of an open battery
47.	can cause serious chemical burns of mouth, esophagus, and
	gastrointestinal tract.
- 4	Skin: Contact between the battery and skin will not cause any harm.
17.	Skin contact with contents of an open battery can cause severe irritation
4	or burns to the skin.
12	Eye: Contact between the battery and the eye will not cause any harm.
	Eye contact with contents of an open battery can cause severe irritation
m,	or burns to the eye.
	CHRONIC (long term): see Section 11 for additional toxicological
N.	data
Medical Conditions	
Aggravated by	Not applicable
Exposure	in in
Reported as	Not applicable
carcinogen	Not applicable
6	

Section 3- Composition/Information on Ingredient

Chemical Composition	CAS No.	Weight (%)
Lead Compounds	7439-92-1	70
Silicon dioxide	14808-60-7	5



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ABS	9003-56-9	7
Sulfuric Acid	7664-93-9	4
Copper	7440-50-8	4
Styrene	25068-38-6	4

Note: CAS number is Chemical Abstract Service Registry Number.

Section 4 - First Aid Measures

Inhalation	If contents of an opened battery are inhaled, remove source of
- 1	contamination or move victim to fresh air. Obtain medical advice.
Skin contact	If skin contact with contents of an open battery occurs, as quickly as possible
124	remove contaminated clothing, shoes and leather goods. Immediately
4	flush with lukewarm, gently flowing water for at least 30 minutes. If
In I	irritation or pain persists, seek medical attention. Completely
	decontaminate clothing, shoes and leather goods before reuse or
121	discard.
Eye contact	If eye contact with contents of an open battery occurs, immediately
in,	flush the contaminated eye(s) with lukewarm, gently flowing water for
	at least 30 minutes while holding the eyelids open. Neutral saline
i i	solution may be used as soon as it is available. If necessary, continue
C.	flushing during transport to emergency care facility. Take care not to
, el	rinse contaminated water into the unaffected eye or onto face. Quickly
C.	transport victim to an emergency care facility.
Ingestion	If ingestion of contents of an open battery occurs, never give anything
T.	by mouth if victim is rapidly losing consciousness, or is unconscious
2	or convulsing. Have victim rinse mouth thoroughly with water. DO



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12,	NOT INDUCE VOMITING. Have victim drink 60 to 240 mL (2-8 oz.)
	of water. If vomiting occurs naturally, have victim lean forward to
12)	reduce risk of aspiration. Have victim rinse mouth with water again.
	Quickly transport victim to an emergency care facility.

Section 5 – Fire Fighting Measures

Flammable Properties	In the event that this battery has been ruptured, the electrolyte solution contain within the battery would be flammable. Like any sealed container, battery may rupture when exposed to excessive heat; this could result in the release of flammable or corrosive materials.
Suitable extinguishing Media	Use extinguishing media suitable for the materials that are burning.
Unsuitable extinguishing Media	Not available
Explosion Data	Sensitivity to Mechanical Impact: This may result in rupture in extreme cases Sensitivity to Static Discharge: Not Applicable
Specific Hazards	Fires involving Lead-acid battery can be controlled with water. When
arising from the	water is used, however, hydrogen gas may evolve. In a confined space,
chemical	hydrogen gas can form an explosive mixture. In this situation,
	smothering agents are recommended to extinguish the fire
Protective Equipment	As for any fire, evacuate the area and fight the fire from a safe
and precautions for	distance. Wear a pressure-demand, self-contained breathing apparatus
firefighters	and full protective gear. Fight fire from a protected location or a safe
	distance. Use NIOSH/MSHA approved full-face self-contained
4.	breathing apparatus (SCBA) with full protective gear.



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The state of the s	
NFPA	Health: 0 Flammability: 0 Instability: 0
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Section 6 – Accidental Release Measures

Personal Precautions,	Restrict access to area until completion of clean-up. Do not touch the	
protective equipment,	spilled material. Wear adequate personal protective equipment as	
and emergency	indicated in Section 8.	
procedures	J 1	
Environmental	Prevent material from contaminating soil and from entering sewers or	
Precautions	waterways.	
Methods and materials	Stop the leak if safe to do so. Contain the spilled liquid with dry sand	
for Containment	or earth. Clean up spills immediately.	
Methods and materials	Absorb spilled material with an inert absorbent (dry sand or earth).	
for cleaning up	Scoop contaminated absorbent into an acceptable waste container.	
	Collect all contaminated absorbent and dispose of according to	
17.	directions in Section 13. Scrub the area with detergent and water;	
	collect all contaminated wash water for proper disposal.	

Section 7 – Handling and Storage

10.		
Handling	Don't handling Lead-acid battery with metalwork. Do not open,	
	dissemble, crush or burn battery. Ensure good ventilation/ exhaustion	
in	at the workplace. Prevent formation of dust. Information about	
	protection against explosions and fires: Keep ignition sources away-	
in .	Do not smoke.	
Storage	If the batteries are subject to storage for such a long term as more than	
	3 months, it is recommended to recharge the Lead-acid battery	



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periodically.
Storage Temperature
Short period less than 3 months: -20~+60 °C, 75%RH Max
Long period more than 3 months: -5 °C ~+35 °C,75%RH Max
Do not storage Lead-acid battery haphazardly in a box or drawer
where they may short-circuit each other or be short-circuited by other
metal objects. Keep out of reach of children. Do not expose Lead-acid
battery to heat or fire. Avoid storage in direct sunlight. Do not store
together with oxidizing and acidic materials.

Section 8 – Exposure Controls, Personal Protection

Engineering control	Use local exhaust ventilation or other engineering controls to control	
12	sources of dust, mist, fumes and vapor. Keep away from heat and open	
	flame. Store in a cool, dry place.	
Respiratory protection	Not necessary under normal conditions.	
Skin and body	Not necessary under normal conditions, Wear neoprene or nitrile	
Protection	rubber gloves if handling an open or leaking battery.	
Eye protection	Not necessary under normal conditions, Wear safety glasses if	
i i	handling an open or leaking battery.	
Hands protection	Wear neoprene or natural rubber material gloves if handling an open or	
in in	leaking battery.	
Others protection	Have a safety shower and eye wash fountain readily available in the	
	immediate work area.	
Hygiene Measures	Do not eat, drink, or smoke in work area. Maintain good	
6.	housekeeping.	



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Section 9-Physical and Chemical Properties

Physical State	Form: Prismatic
	Color: Black
in. 12	Odor: Odorless
Change in condition	- W W
pH, with indication of the concentration	Not applicable.
Melting point/freezing point	Not available.
Boiling Point, initial boiling point and Boiling range	Not available.
Flash Point	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor Pressure	Not applicable.
Vapor Density: (Air = 1)	Not applicable.
Density/relative density	Not available.
Solubility in Water	Insoluble.
n-octanol/water partition coefficient	Not available.
Auto-ignition temperature	130°C



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Decomposition	N-4 11-1-1-		
temperature	Not available.		
Odout threshold	Not available.	4	
Evaporation rate	Not available.	120	in
Flammability (soil, gas)	Not available.		
Viscosity	Not applicable.	121	in.

Section 10 - Stability and Reactivity

Stability	The product is stable under normal conditions.
Conditions to Avoid	Do not subject Lead-acid battery to mechanical shock.
(e.g. static discharge,	Vibration encoutered during transportation does not cause leakage, fire
shock or vibration)	or explosion.
5	Do not disassemble, crush, short or install with incorrect polarity.
	Avoid mechanical or electrical abuse.
Incompatible Materials	Not Available
Hazardous	This material may release toxic fumes if burned or exposed to fire
Decomposition	
Products	In In In
Possibility of	Not Available
Hazardous Reaction	in in

Section 11- Toxicological Information

Irritation	Risk of irritation occurs only if the battery is mechanically, thermally or	
	electrically abused to the point of compromising the enclosure. If this	
4.	occurs, irritation to the skin, eyes and respiratory tract may occur.	



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Sensitization	Not Available				
Neurological Effects	Not Available	17		12,1	
Teratogenicity	Not Available		4		_
Reproductive Toxicity	Not Available		The same	15	
Mutagenicity (Genetic Effects)	Not Available	J.	نی		, ri
Toxicologically Synergistic Materials	Not Available	نى		L)	

Section 12- Ecological Information

General note	Water hazard class 1(Self-assessment): slightly hazardous for water.
-1	Do not allow undiluted product or large quantities of it to reach ground
D. (water, water course or sewage system.
Anticipated behavior	17 17
of a chemical product	, Ni
in	Not Available
environment/possible	Not Available
environmental	in in
impace/ecotoxicity	
Mobility in soil	Not Available
Persistence and	Not Available
Degradability	Not Available
Bioaccumulation	N. A. 11.11
potential	Not Available
Other Adverse Effects	Not Available



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Section 13- Disposal Considerations

Product disposal recommendation: Observe local, state and federal laws and regulations.

Packaging disposal recommendation: Be aware discarded batteries may cause fire, tape the battery terminals to insulate them. Don't disassembly the battery. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local, state and federal laws and regulations.

The potential effects on the environment and human health of the substances used in batteries and accumulators; the desirability of not disposing of waste batteries and accumulators as unsorted municipal waste and of participating in their separate collection so as to facilitate treatment and recycling;

Section 14- Transport Information

Label for conveyance:	N/A		
UN Number:	UN2800		
Transport hazard class(es):	8		
Packing group:	- 4		
Marine pollutant:	No		
UN Proper shipping name:	Batteries, wet, non-spillable		
Transport information:	This goods shall be considered Not Restricted Goods and need to be complied with the requirements of Packing Instruction 872 of special provision A67 of 61 th DGR		
124	Manual of IATA or special provision 238 of IMDG CODE (Amdt. 39-18).		
47,	The words "Not Restricted" and the Special Provision number must be included in the description of the substance on the Air or		



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'N' .	Sea Waybill.
Transport Fashion:	By air, by sea, by railway, by road.

Section 15 – Regulatory Information

OSHA hazard communication	standard (29 CFR 191	0.1200)
Hazardous		Non-hazardous

Section16 - Additional Information

Additional	the information above is believed to be accurate and represents the best
Information:	information currently available to us. However, Concorde makes no
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