



Shenzhen BST Technology Co., Ltd.

MSDS

MATERIAL SAFETY DATA SHEET

Sample Description
& Model

SLAUMXLI560-12PRIBLU
(12V 560Ah)

Applicant

UltraMax Batteries Ltd

Address

Watkins House, Pegamoid Road, London N18 2NG

Issue date

2022-07-18



Shenzhen BST Technology Co., Ltd.

Written by:

Wenjuan

Approved by:

Fanson Yan



Shenzhen BST Technology Co., Ltd.

Material Safety Data Sheet

According to GB/T16483-2008&ISO11014:2009

Section 1 - Chemical Product and Company Identification

Chemical product information			
Sample Name	LiFePO4 Battery	Sample Model	12V 560Ah
Sample Receiving Date	2022-07-13	Sample Uses	---
Company information			
Applicant	UltraMax Batteries Ltd		
Client address	Watkins House, Pegamoid Road, London N18 2NG		
Manufacturer	UltraMax Batteries Ltd		
Manufacturer address	Watkins House, Pegamoid Road, London N18 2NG		
Telephone	02088038899		
Fax number			
Post code	---		
Emergency telephone	---		
E-mail	sales@ultramax.co.uk		



Shenzhen BST Technology Co., Ltd.

Section 2 - Hazards Identification

Emergency overview: No information available.

Classification according to GHS: Not a dangerous substance according to GHS.

Label elements	
Hazard pictogram(s)	No available
Signal word	No available
Hazard statement(s)	No available
Precautionary statement(s)	
Prevention	No available
Response	No available
Safe storage	No available
Disposal	No available

Physical and chemical risk: No information available.

Health hazard: No information available.

Other hazards: No information available.



Shenzhen BST Technology Co., Ltd.

Section 3 - Composition, Information on Ingredients

Classification of the substance or mixture: ☐ substance ☒ mixture

Homogeneous Material Name. (c.g. Aluminum alloy)	Chemical Formula	CAS No. (e.g. 7440-50-8)	Content (%)
Ethylene Carbonate	C ₃ H ₄ O ₃	96-49-1	5
Dimethyl Carbonate	C ₃ H ₆ O ₃	616-38-6	5
Lithium Hexafluorophosphate	LiPF ₆	21324-40-3	15
Lithium Metal	Li	7439-93-2	3
Lithium Iron Phosphate	LiFePO ₄	15365-14-7	40
Copper	Cu	7440-50-8	10
Graphite	C ₂₄ X ₁₂	7782-42-5	8
Polyvinylidene Fluoride (PVDF)	(CH ₂ -CF ₂) _n	24937-79-9	6
Aluminium	Al	7429-90-5	5
Nickel	Ni	7440-02-0	3

Note : CAS : Chemical Abstracts Service (Division of the American Chemical Society).

EC# : European Inventory of Existing Commercial Chemical Substances

“---” : No Data



Shenzhen BST Technology Co., Ltd.

Section 4 - First Aid Measures

General information: No special measures required.

After inhalation: Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

After skin contact: Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

After eye contact: Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

After swallowing: Do not induce vomiting. Get medical attention.

Acute and delayed effects

The main symptoms: No relevant details information.

Health effects: No relevant details information.

To protect the rescuers advice: No relevant details information.

To the doctor's advice: Need timely medical treatment and special symptoms, no relevant details information.



Shenzhen BST Technology Co., Ltd.

Section 5 - Fire Fighting Measures

Suitable extinguishing agents: Use extinguishing agent suitable for local conditions and the surrounding environment. Such as dry powder, CO₂.

Special hazards arising from the substance or mixture: Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature (>150°C (302°F)), when damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

Attention extinguishing method and protective measures: Wear self-contained respirator. Wear fully protective impervious suit.

Section 6 - Accidental Release Measures

Homework personnel protective measures, protective equipment and emergency disposal procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.

Steps to be taken in case material is spilled or released and Waste disposal method: Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water. All waste must refer to the United Nations, the national and local regulations for disposal.

To prevent the secondary disasters prevention measures: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.



Shenzhen BST Technology Co., Ltd.

Section 7 - Handling and Storage

Precautions for safe handling: Consumption of food and beverage should be avoided in work areas. Wash hands with soap and water before eating, drinking. Ground containers when transferring liquid to prevent static accumulation and discharge.

Information about fire and explosion protection: Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

Conditions for safe storage, including any incompatibilities: Requirements to be met by storerooms and receptacles. Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

Section 8 - Exposure Controls, Personal Protection

Occupational exposure limit

Ingredients with limit values that require monitoring at the workplace: no relevant details information.

Biological limit: no relevant details information.

Detection: no relevant details information.

Engineering control



General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

Respiratory Protection: Use suitable respirator when high concentrations are present.

Personal Protection



Shenzhen BST Technology Co., Ltd.

Hand protection	Eye protection
 <i>Protective gloves</i>	 <i>Tightly sealed goggles</i>

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties	
Appearance	---
Form	Almost Cuboid
Odour	Odorless
Electrical properties information	
Voltage	12.8V
Cell Voltage	3.2V
Electric capacity	560Ah
Watt-hour	7168 Wh

Section 10 - Stability and Reactivity

Chemical stability: Stable in normal circumstances.

Possibility of hazardous reactions: Data not available.

Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible materials.

Incompatibilities: Oxidizing agents, acid, base.

Hazardous Combustible Products: Carbon monoxide, carbon dioxide, lithium oxide fumes.



Shenzhen BST Technology Co., Ltd.

Section 11 - Toxicological Information

Information on toxicological effects

Acute toxicity LD/LC50 Values relevant for classification: Not available.

LC50 : (lethal concentration, 50 percent kill)

Skin irritation/corrosion: No further relevant information available.

Eyes stimulus/corrosion: No further relevant information available.

Breathing or skin irritation: No further relevant information available.

Germ cell respectively: No further relevant information available.

Carcinogenicity: No further relevant information available.

Reproductive toxicity: No relevant details information.

Specific target organ system toxicity disposable contact: No further relevant information available.

Specific target organ system toxicity, repeated contact: No further relevant information available.

Inhalation hazard: No further relevant information available.

Potentially harmful effects: No further relevant information available.



Shenzhen BST Technology Co., Ltd.

Section 12 - Ecological Information

Ecological toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behaviour in environmental systems

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Ecological effects

Additional ecological information :No further relevant information available.

General notes:Do not allow material to be released to the environment without proper governmental permits.

Other adverse effects: No further relevant information available.

Section 13 - Disposal Considerations

Waste treatment methods and Recommendation: Consult state, local or national regulations to ensure proper disposal.

Uncleaned packaging and Recommendation: Disposal must be made according to official regulations.



Shenzhen BST Technology Co., Ltd.

Section 14 - Transport Information

	IATA	IMDG
UN Number	UN3480	UN3480
UN Proper shipping name	Lithium Battery	Lithium Battery
Transport hazard class(es)	9	9
Packing group	II	II
Marine pollutant	No	

IATA: (International Air Transport Association)

IMDG: (International Maritime Dangerous Goods)

Transport information: The Lithium Battery (Lithium Battery 12.8V 560Ah) has passed the test UN38.3.

According to the Packing Instruction 965 section IA of IATA DGR 62nd Edition for transportation.

According to the special provision 188 of IMDG (39-18) or the <<Recommendations On The Transport Of Dangerous Goods-Model Regulations>> (20th). The package is subjected to dangerous goods.

More information concerning shipping, testing, marking and packaging can be obtained from Label master at <http://www.labelmaster.com>.

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain.

Prevent collapse of cargo piles and wet by rain.

Transport Fashion: By air, by sea, by railway, by road.



Shenzhen BST Technology Co., Ltd.

Section 15 - Regulatory Information

This Material Safety Data Sheet complies with the requirements of Regulation (EC) No. 1907/2006.

The following laws, regulations, rules and standards of the substance or mixture of management to do the corresponding provisions:

Composition	CAS No.	IECSC	TSCA	DSL/NDSL	EINECS/ ELINCS/ NLP
Ethylene Carbonate	96-49-1	Not Listed	Listed	DSL	Not Listed
Dimethyl Carbonate	616-38-6	Listed	Listed	NDSL	Listed
Lithium Hexafluorophosphate	21324-40-3	Listed	Listed	DSL	Listed
Lithium Metal	7439-93-2	Listed	Listed	DSL	Listed
Lithium Iron Phosphate	15365-14-7	Listed	Listed	DSL	Listed
Copper	7440-50-8	Listed	Listed	DSL	Listed
Graphite	7782-42-5	Listed	Listed	DSL	Listed
Polyvinylidene Fluoride (PVDF)	24937-79-9	Listed	Listed	DSL	Listed
Aluminium	7429-90-5	Listed	Listed	DSL	Listed
Nickel	7440-02-0	Listed	Listed	DSL	Listed

EINECS: (European Inventory of Existing Chemical Substances)

ELINCS: (European List of Notified Chemical Substances)

DSL: (Canadian Domestic Chemical Substances)

IECSC: (Inventory of Existing Chemical Substances in China)

NDSL: (Canadian non-domestic Chemical Substances)

NLP:

TSCA: (Toxic Substances Control Act of USA)



Shenzhen BST Technology Co., Ltd.

Section 16 - Additional Information

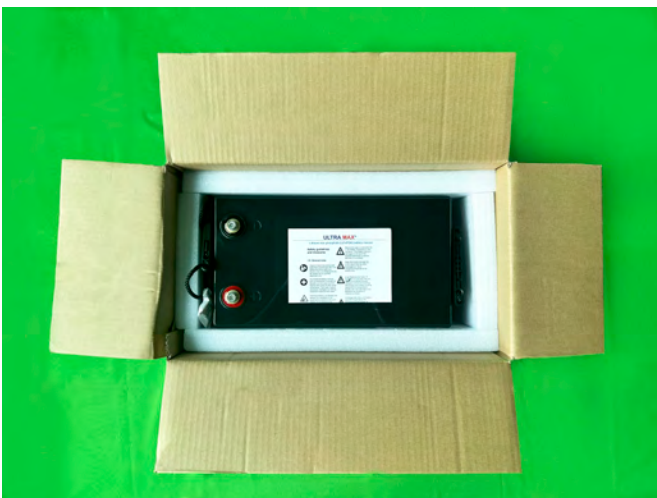
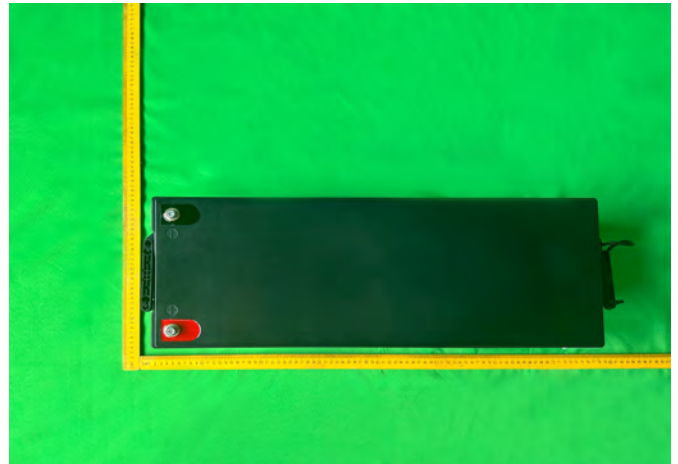
Declare to reader:

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.



Shenzhen BST Technology Co., Ltd.

Sample Photo:





Shenzhen BST Technology Co., Ltd.

Statement

- 1、 This report is invalid without the special seal for report of BST and the signatures of approver.
- 2、 This report is invalid if is blotted out and deleted.
- 3、 If the applicant has any questions about results, shall submit to BST within 15 days.
- 4、 This report is responsible for the sample provided by the client only.
- 5、 This report shall not be reproduced except in full, or extracted, without the written approval of BST.
- 6、 The client should provide samples and relevant data, otherwise we will not bear any relevant responsibilities.

Detection unit: Shenzhen BST Technology Co., Ltd.

Address: Chaomei Industrial Park, Donghai Road, Yongan Community Yantian Street, Yantian District, Shenzhen, Guangdong, China

Postal code: 518000

-----End of Report-----