

Safety Data Sheet:
(according to WHSQ Code of Practice 2021)

29th July 2026

SigenStor BAT 5.0/6.0/8.0/10.0 LFP Battery

Section 1: Identification: Product identifier and chemical identity

Product Identifier:	Rechargeable Lithium Iron Phosphate (LFP) Battery
Other means of identification:	Model number: SigenStor BAT 5.0/6.0/8.0/10.0 Synonyms: LiFePO4, LFP, Lithium-ion battery Classification (UN/ID No.): UN3480 SigenStor BAT 5.0/6.0/8.0/10.0 are the integrated Battery Systems for the BESS systems as table 1 listed;
Recommended use of the chemical and restrictions on use:	Energy storage systems
Details of Manufacturer:	Sigenergy Technology Co.,Ltd. No.175 Weizhan Road, Lingang New Area,China(Shanhgai)PilotFree Trade Zone, Shanghai P.R.China. +86 (021) 61000956
Emergency (Australia):	000
Poisons Information Hotline (Australia):	13 11 26.
Emergency Contact:	Pradeep Anasuri Suit 02, Level 7, 191 Clarence Street, Sydney, NSW 2000, Australia pradeep.anasuri@sigenergy.com +61 452 417 654
Australia Importer:	Sigenergy Australia Pty Ltd. Suite 02, Level 7, 191 Clarence Street,Sydney, NSW2000, Australia service@sigenergy.com +61 0400 756 464

Model No.*	Energy Controller Model	EV DC Charging Module	No. Of SigenStor BAT 5.0/6.0/8.0/10.0
SigenStor-3S(-EV12/25)-(5-54.24)	SigenStor EC 3.0 SP	NA: no SigenStor EV DC charging module get installed; EV12: SigenStor EVDC 12 7.5S2; EV25: SigenStor EVDC 25 7.5S2	1~6
SigenStor-5S(-EV12/25)-(5-54.24)	SigenStor EC 5.0 SP		
SigenStor-6S(-EV12/25)-(5-54.24)	SigenStor EC 6.0 SP		
SigenStor-8S(-EV12/25)-(5-54.24)	SigenStor EC 8.0 TP AU		
SigenStor-10S(-EV12/25)-(5-54.24)	SigenStor EC 10.0 SP AU		
SigenStor-12S(-EV12/25)-(5-54.24)	SigenStor EC 12.0 SP AU		
SigenStor-5T(-EV12/25)-(5-54.24)	SigenStor EC 5.0 TP AU		
SigenStor-10T(-EV12/25)-(5-54.24)	SigenStor EC 10.0 TP AU		
SigenStor-15T(-EV12/25)-(5-54.24)	SigenStor EC 15.0 TP AU		
SigenStor-20T(-EV12/25)-(5-54.24)	SigenStor EC 20.0 TP AU		
SigenStor-25T(-EV12/25)-(5-54.24)	SigenStor EC 25.0 TP AU		
SigenStor-30T(-EV12/25)-(5-54.24)	SigenStor EC 30.0 TP AU		
*For specific model number, please refer to the Sigen Energy Storage product datasheet.			

Tabel 1. Model list for SigenStor Energy Storage System

Material Safety Data Sheet (MSDS)

1. Chemical product and company identification

Name of chemical product		Sigen Battery
Model/Type		SigenStor BAT 5.0 (Rated Voltage19.2 Vd.c, Rated Energy Capacity 5.38 kWh) SigenStor BAT 8.0 (Rated Voltage28.8 Vd.c, Rated Energy Capacity 8.0kWh) SigenStor BAT 6.0 (Rated Voltage 19.2 Vd.c, Rated Energy Capacity6.02kWh) SigenStor BAT 10.0 (Rated Voltage28.8 Vd.c, Rated Energy Capacity9.04kWh)
Manufacturer	Name	Sigenergy Technology, Co., Ltd
	Address	Building 12-2, 678 Yulnqiao Road, China (Shanghai) Pilot Free Trade Zone, Pudong New Area, Shanghai, China
	Telephone number	+86 (021) 61000956
	Emergency telephone number	+86 (021) 61000956
Factory	Name	Shanghai Sigeyuan Intelligent Technology Co., Ltd.
	Address	Room 514, Floor 5, No. 175, Weizhan Road, Lingang New Zone, China (Shanghai) Pilot Free Trade Zone, 201304, P.R.China

2. Hazards identification

Fire or Explosion Hazards: Lithium-ion battery contains flammable liquid electrolyte that may vent, ignite and produce sparks when subjected to high temperatures (>150 degree), when damaged or abused (e.g., mechanical damage or electrical overcharging). May burn rapidly with flare-burning effect. May ignite other batteries in close proximity.

Health Hazards: Contact with the electrolyte of battery may be irritating to skin, eyes and mucous membranes. Fire will produce irritating, corrosive and/or toxic gases, Fumes may cause dizziness or suffocation.

3. Composition/information on ingredients

Hazardous components for SigenStor BAT 5.0/8.0	Content / wt%	CAS No.
Phosphoric acid, iron (2+) lithium salt (1:1:1)	38	15365-14-7
Graphite	19	7782-42-5
Phosphate (1-), hexafluoro, lithium	19	21324-40-3
Polyethylene	3	9002-88-4
Copper	9	7440-50-8
Aluminum	12	7429-90-5

Hazardous components for SigenStor BAT 6.0/10.0	Content / wt%	CAS No.
Phosphoric acid, iron (2+) lithium salt (1:1:1)	39.6	15365-14-7
Graphite	20.1	7782-42-5
Aluminum alloy	7	----
Ethylene carbonate	6	96-49-1
Dimethyl carbonate	6	616-38-6
Copper	5.4	7440-50-8
Ethyl methyl carbonate	4.9	623-53-0
Aluminum	3.8	7429-90-5
Polyethylene	2.3	9002-88-4
Phosphate (1-), hexafluoro, lithium	2.3	21324-40-3
Styrene Butadiene Copolymer	0.8	9003-55-8
carbon black	0.8	1333-86-4
Poly(vinylidene fluoride)	0.7	24937-79-9
Carboxymethylcellulose sodium salt, low viscosity	0.3	9004-32-4

4. First-aid measures

Skin Exposure: If in contact with the internal materials of battery, remove the contaminated clothing, shoes and socks immediately flush with plenty of water for at least 20 minutes. Call a physician.

Eye Exposure: If in contact with the internal materials of battery, lift your eyelids immediately and rinse them with running water for more than 20 minutes. Call a physician.



Inhalation Exposure: If the internal materials of battery are inhaled, immediately remove to fresh air. If breathing is difficult give oxygen, If not breathing, give artificial respiration. Call a physician.

Oral Exposure: Do not induce vomiting if the internal materials of battery are swallowed. Call a physician immediately.

Most Important Symptoms/Effects, Acute and Delayed: No data available.

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary: No data available.

5. Fire-fighting measures

Suitable Extinguishing Media: Suitable: Water spray or regular foam.

Specific Hazards Arising from the Chemical: May decompose upon combustion to generate irritating, corrosive or toxic fumes. Fumes may cause dizziness or suffocation.

Special Protective Action for Fire-fighters: Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes, Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures: Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off. Remove all sources of ignition.

Environmental Precautions: Avoid leakage getting into the earth, ditches or waters, Avoid directly releasing the washing waste-water into the environment.

Methods and Materials for Containment and Cleaning up: If the electrolyte leaks, use soil, sand or other non-combustible materials to absorb. The leaked batteries and dirty adsorbents should be placed in metal containers.

7. Handling and storage

Precautions for Safe Handling: Operators should be trained and strictly abide by operating procedures. Wear appropriate protective clothing and safety gloves. Keep away from ignition sources, heat and flame. No smoking at working site. Handling is performed in a well-ventilated place. Avoid disassembling the battery at will and reversing battery polarity within the battery assembly, The battery must be firmly packed in inner packaging so as to effectively prevent short circuits and short circuits caused by movement. If the electrolyte leaks, avoid directly contacting with eyes and skin. Avoid inhalation. Incompatibilities: Strong oxidizing agents, combustible materials and corrosives.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, dry, and well-ventilated area, Keep away from ignition sources, heat and flame. Incompatibilities: Strong oxidizing agents, combustible materials and corrosives. The battery must be firmly packed in inner packaging so as to effectively prevent short circuits and short circuits caused by movement. Storage place should be equipped with appropriate varieties and quantities of firefighting equipment and leakage emergency treatment equipment.

8. Exposure controls/Personal

Control Parameters: GB2 2. 1-2019 Occupational Exposure limits for Hazardous Agents in the Workplace - Part 1: Chemical Hazardous Agents:

Graphite dust: PC-TWA 4 mg/m³ (Total dust): PC-TWA 2 mg/m³ (Respirable dust)

Copper (calculated as Cu): Copper dust PC-TWA 1 mg/m³; Copper smoke PC-TWA 0.2 mg/m³ Aluminum metal, aluminum alloy dust: PC-TWA 3 mg/m³(Total dust)

Polyethylene dust: PC-TWA5 mg/m³ (Total dust)

ACGIH:

Graphite: TLV-TWA 2 mg/m³

Copper: TLV-TWA1mg (Cu)/m³ Dust, smoke: TLV-TWA0.2mg (Cu)/m³ Smoke



Aluminum: TLV-TWA 1mg/m³

Appropriate Engineering Controls: Mechanical exhaust required, Safety shower and eye bath.

Individual Protection Measures :

Eye/Face Protection: Wear chemical safety glasses if needed.

Skin Protection: Hand Protection: Wear safety gloves. Body Protection: Wear appropriate protective clothing.

Respiratory Protection: Wear government approved respirator if needed.

Thermal Hazards: No data available.

Other Protect: No smoking, drinking and eating at working site, Wash thoroughly after handling.

9. Physical and chemical properties

Appearance: Off-white plastics cement and metal shell

Order: Odorless

PH Value: 8-9

Solubility: Partial soluble in water

Melting Point/ Freezing Point: >300 degrees Celsius

Boiling Point, Initial Boiling Point and Boiling Range: No data available

Flash Point (Closed Cup): No data available

Density/Relative Density: No data available

Kinematic Viscosity: No data available

Lower/Upper Explosion Limit/Flammability Limit: No data available

Vapour Pressure: No data available

Relative Vapor Density: No data available

Partition Coefficient N-Octanol/Water (Log Value): No data available

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Particle Characteristics: No data available

Flammability (Solid. Gas): No data available

10. Stability and reactivity

Reactivity: No data available

Chemical stability: Stable under normal temperatures and pressures

Possibility of hazardous reactions: No data available

Conditions to avoid: Avoid mis operation, exposure to heat and open flame. Avoid mechanical or electrical abuse and overcharge Prevent short circuits and short circuits caused by movement

Incompatible materials: Strong oxidizing agents, combustible materials and corrosives

Hazardous decomposition products: Carbon oxides, metal oxides, etc.

11. Toxicological information

Acute Toxicity:

Skin Corrosion/Irritation: The electrolyte in the battery causes skin irritation.

Serious Eye Damage/Irritation: The electrolyte in the battery causes eye irritation.

Respiratory Sensitization: No data available.

Skin Sensitization: No data available.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive Toxicity: No data available.

Specific Target Organ Toxicity -Single Exposure: No data available.

Specific Target Organ Toxicity -Repeated Exposure: No data available.

Aspiration Hazard: No data available.

12. Ecological information

Toxicity: No data available.

Persistence and Degradability: No data available.



Bio accumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

13. Disposal considerations

Disposal Methods: The disposal of discarded battery shall comply with the requirements of relevant laws, regulations, policies and standards such as the "Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste" and "Technical Policy for the Prevention and Control of Waste Battery Pollution". Contact a licensed professional waste disposal service to dispose of wastes. Used battery being transported for disposal or reclamation should be carefully checked prior to shipment to ensure the integrity of each battery and its suitability for transport.

14. Transport information

Only Lithium Battery during Transport: The product has passed the test items of Manual of Tests and Criteria Section 38.3. The total net weight of the lithium batteries is more than 35 kg.

RID/ADR (2025 Edition): Hazard Class:9; UN Number: UN3480; Proper Shipping Name: lithium ion batteries According to 2. 2. 9. 1. 7(g), Manufacturers and subsequent distributors of cells or batteries manufactured shall make available the test summary as specified in the Manual of Tests and Criteria, Part III, sub-section 38.3, paragraph 38.3. 5.

IATA DGR (67th Edition): Forbidden for transport.

IMO IMDG Code 42-24 : Hazard Class: 9; UN Number: UN3480; Proper Shipping Name: lithium ion batteries EmS Number: F-A , S-I; According to 2.9.4.7, Manufacturers and subsequent distributors of cells or batteries manufactured shall make available the test summary as specified in the Manual of Tests and Criteria, Part III, sub-section 38.3, paragraph 38.3.5.

15. Regulatory Information

Domestic Regulations:

Only Lithium Battery during Transport:

The product has passed the test items of Manual of Tests and Criteria Section 38.3.

Regulations Concerning Road Transportation of Dangerous Goods(JT/T 617-2018):

UN Number: 3480 Name and Description: lithium ion batteries

List of Dangerous Goods (GB 12268-2025): UN Number: UN3480 Shipping Name:

Lithium ion batteries Packing Group: II .

List of Dangerous Goods by Rail (TB/T 30006-2022):Number: 91045 Name of Product: Lithium ion batteries

International Regulations:

Directive 2023/1542 and 2013/56/EU: The label, disposal and recycling of the battery shall meet the requirements of EU Directive 2006/66/EC and 2013/56/EU.

ICAO TI:

1. Unless be exempted according to ICAO TI, the lithium ion cell/batteries (UN 3480, P [965) and lithium metal cell/batteries (UN 3090,P 968)are forbidden for carriage on passenger aircraft.
2. Unless be approved according to ICAO TI, Lithium ion cells/batteries (UN3480, P1 965) must be offered for transport at a state of charge (SoC)not exceeding 30% of their rated design capacity.

16. Other information

Preparation Date: 2026-02-28

Prepared By: Sigenergy Technology, Co., Ltd

Other Information: This SDS is only compiled for battery and based on the information such as ingredients provided by the applicant and our current knowledge. This SDS shall be used only as a guide. If the battery is used as a component in another product, the information in this SDs may not be applicable.



The users of this SDS must make independent judgments on the correctness and completeness and then decide its suitability according to the actual situation, The users should take the relevant legal responsibilities for the consequences of use.