

Safety Data Sheet

SECTION 1. IDENTIFICATION

■ **Product Identifier**

Product Name	Rechargeable Li-ion Battery BXC-4.992kWh (96V 52Ah 4.992kWh)
Applicable Models	BXC-4.992kWh-1S, BXC-4.992kWh-2S, BXC-4.992kWh-3S, BXC-4.992kWh-4S, BXC-4.992kWh-5S, BXC-4.992kWh-6S, BXC-4.992kWh-1S-I, BXC-4.992kWh-2S-I, BXC-4.992kWh-3S-I, BXC-4.992kWh-4S-I, BXC-4.992kWh-5S-I, BXC-4.992kWh-6S-I.

■ **Other Means of Identification**

SDS #	SDS003
Synonyms	Lithium Iron Phosphate (LiFePO ₄ , LFP)
Proper Shipping Name (ADG Code)	LITHIUM ION BATTERIES(including lithium ion polymer batteries)
UN/ID No	UN3480

■ **Recommended Use of the Chemical and Restrictions on Use**

Recommended Use	Energy Storage; Battery Packs
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■ **Details of the Manufacturer of the Safety Data Sheet**

Manufacturer Name	Jiangsu Weiheng Intelligent Technology Co., Ltd.
Manufacturer Address	Sheng Xiang, Yaxi Community, Luoshe Town, Huishan District, Wuxi City, Jiangsu Province, P.R. China
Manufacturer Post Code	214000
Manufacturer Telephone	+86 4008776999
Manufacturer Email	yishui.tang@weiheng-tech.com

■ **Details of the Importer of the Safety Data Sheet**

Importer Name	ECACTUS PTY LTD
Importer Address	Level 32, 367 Collins St, Melbourne, Victoria, 3000
Importer Telephone	+61451888483
Importer Email	service.au@whes.com

■ **Emergency Phone Number**

Emergency Telephone	0061417183105
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SECTION 2. HAZARDS IDENTIFICATION

Hazard label



No.9A hazard label

Explosive risk

This article does not belong to the explosion dangerous goods.

Flammable risk

This article does not belong to the flammable material

Oxidation risk

This article does not belong to the oxidation of dangerous goods.

Toxic risk

This article does not belong to the toxic dangerous goods.

Radioactive risk

This article does not belong to the radiation of dangerous goods.

Mordant risk

This article does not belong to the corrosion of dangerous goods.

Other risk

Battery which belong to the Lithium-ion battery.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Concentration (weight percent, %)
LiFePO ₄	15365-14-7	30~50
CH ₄	7782-42-5	10~30
C ₅	1333-86-4	0~5
CNT	308068-56-6	0~5
PVDF	24937-79-9	0~2
SBR	9003-55-8	0~1.5
CMC	9004-32-4	0~1
(C ₂ H ₄) _n	9002-88-4	0~1
Al	7429-90-5	5~10
Cu	7440-50-8	5~10
Ni	7440-02-0	0.1~2
(C ₃ H ₆) _n	9003-07-0	0~1
C ₃ H ₃ FO ₃	114435-02-8	0~5
C ₃ H ₅ O ₄	96-49-1	0~10
C ₅ H ₁₀ O ₃	105-58-8	0~10
C ₄ H ₆ O ₃	108-32-7	0~10
LiPF ₆	21324-40-3	0~5
C ₃ H ₆ O ₃ S	1120-71-4	0~0.5

SECTION 4. FIRST AID MEASURES

Eye

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical

Skin

aid.

Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.

Inhalation

Remove from exposure and move to fresh air immediately. Use oxygen if available.

Ingestion

Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point

N/A.

Auto-Ignition Temperature

N/A.

Extinguishing Media

Water, CO2.

Special Fire-Fighting Procedures

Self-contained breathing apparatus.

Unusual Fire and Explosion

Cell may vent when subjected to excessive heat-exposing battery contents.

Hazards

Hazardous Combustion Products

Carbon monoxide, carbon dioxide, lithium oxide fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURE

■ **Steps to be Taken in case Material is Released or Spilled**

If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the battery to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

■ **Waste Disposal Method**

It is recommended to discharge the battery to the end, to use up the metal lithium inside the battery, and to bury the discharged battery in soil.

SECTION 7. HANDLING AND STORAGE

The battery should not be opened, destroyed or incinerated, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container. Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire. Do not crush or puncture the battery, or immerse in liquids.

■ **Precautions to be taken in handling and storing**

Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.

■ **Other Precautions**

The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection	In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use.
Ventilation	Not necessary under conditions of normal use.
Protective Gloves	Not necessary under conditions of normal use.
Other Protective Clothing or Equipment	Not necessary under conditions of normal use.
Personal Protection is recommended for venting battery	Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Quadrate shape.	Flammability: Not applicable unless individual components exposed.
Odors: If leaking, smells of medical ether.	Relative density: Not applicable unless individual components exposed.
pH: Not applicable as supplied.	Solubility (water): Not applicable unless individual components exposed.
Flash Point: Not applicable unless individual components exposed.	Solubility (other): Not applicable unless individual components exposed.

SECTION 10. STABILITY AND REACTIVITY

Stability	Product is stable under conditions described in Section 7. Heat above 70°C or incinerate. Deform. Mutilate. Crush.
Conditions to Avoid:	Disassemble. Overcharge. Short circuit. Expose over a long period to humid conditions.
Materials to avoid	Oxidising agents, alkalis, water.
Hazardous Decomposition Products	Toxic Fumes, and may form peroxides.
Hazardous Polymerization	N/A.
If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalies, halogenated Hydrocarbons.	

SECTION 11. TOXICOLOGICAL INFORMATION

■ **Signs & symptoms**

None, unless battery ruptures. In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.

■ **Inhalation**

Lung irritant.

■ **Skin contact**

Skin irritant.

■ **Eye contact**

Eye irritant.

■ **Ingestion: Poisoning if swallowed.**

Poisoning if swallowed. Medical conditions generally aggravated by exposure: In the event of exposure to internal contents, moderate to severe irritation, burning and dryness of the skin may occur, Target Organs nerves, liver and kidneys.

SECTION 12. ECOLOGICAL INFORMATION

■ **Mammalian effects**

None known at present.

■ **Eco-toxicity**

None known at present.

■ **Environmental fate**

None known environmental hazards at present.

SECTION 13. DISPOSAL CONSIDERATIONS

Do not incinerate, or subject cells to temperature in excess of 70°C, such abuse can result in loss of seal leakage, and/or cell explosion. Dispose of in accordance with appropriate local regulations.

SECTION 14. TRANSPORT INFORMATION

Label for conveyance	No.9A hazard label; Cargo aircraft only label.
UN Number	UN 3480
Proper Shipping name	Lithium ion batteries
IMDG Code/TDG Special	230, 310, 348, 376, 377, 384, 387

provisions

IMDG Code/TDG Packing P903

Instruction

IATA DGR Packing Instructions Section IA of 965

EmS No F-A,S-I

Marine pollutant No

Hazard Classification

The goods shall be complied with the requirements of Packing Instructions section IA of 965 of 65th DGR Manual of IATA (2024 edition), the Packing Instructions TDG 23th Edition and the Packing Instructions P903 of IMDG Code (Amdt.41-22), including the passing of the UN38.3 test.

SECTION 15. REGULATORY INFORMATION

The laws and regulations applicable to the transportation of lithium batteries are as follows:

The UN Model Regulations, United Nations ST/SG/AC.10/1/Rev 23. Recommendations on the Safe Transport of Dangerous Goods

The International Civil Aviation Organization (ICAO) Technical Instructions for the Safe Transport of Dangerous Goods by Air Transport

The International Air Transport Association (IATA) Dangerous Goods Regulations (65th Edition 2024)

International Maritime Organization (IMO) International Maritime Dangerous Goods Code (IMDG Code) (Amdt.41-22)

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR 2023) JT/T 617-2018 Regulations concerning road transportation of dangerous goods.

SECTION 16. OTHER INFORMATION

This file is only effective to the batteries (Model: BXC-4.992kWh) provided by commissioner which manufactured by Jiangsu Weiheng Intelligent Technology Co., Ltd. The commissioner provides the composition information of batteries, and promises its integrity and accuracy.

■ **Disclaimer**

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 9th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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