

MATERIAL SAFETY DATA SHEET

Date: 2026-06-29

File No.: GW-SDS-260629-01

1. Identification of the substance/preparation and of the company/undertaking

Product name: Rechargeable Li-ion Battery Module

Model: LX F3.2-20

Product name: Rechargeable Li-ion Battery System

Model: LX F6.4-H-20

LX F9.6-H-20

LX F12.8-H-20

LX F16.0-H-20

LX F19.2-H-20

LX F22.4-H-20

LX F25.6-H-20

LX F28.8-H-20

Supplier identification

Company: GoodWe Technologies Co.,Ltd.

Contact for information: No.90 Zijin Road, New District, Suzhou,215011,China

Emergency telephone No.: +86-512-69582260

Manufacturer

Company: Goodwe (Guangde)Power Supply Technology Co.,Ltd.

Contact for information: No.8,Dongting Rd.,Guangde Economic Development Zone Anhui, China

Australia Importer

Company Name: GoodWe Australia Pty Ltd

Address: 2/6 Enterprise Drive, Rowville, Victoria, 3178, Australia

Contact Person Name: Dean Williamson

Contact Person Number: 61 402 817 522

Contact Person E-mail : Dean.williamson@goodwe.com**Emergency Phone Number**

Emergency Phone +61 402 817 522/+61 399 183 905

1. Composition/information on ingredients

Component		CAS No.	Concentration (weight percent, %)
Lithium iron phosphate		15365-14-7	38.86%
Graphite		7782-42-5	18.20%
Organic Electrolyte	Ethylene carbonate	96-49-1	6.68%
	Ethyl methyl carbonate	623-53-0	1.14%
	Diethyl carbonate	105-58-8	9.15%
	Propylene carbonate	108-32-7	2.86%
	Lithium hexafluorophosphate	21324-40-3	2.29%

Polypropylene	9003-07-0	4.2%
Copper	7440-50-8	1.68%
Aluminum	7429-90-5	14.76%

2. Hazards identification

Health Hazards (Acute and Chronic):

For the battery cell, chemical materials are stored in a hermetically sealed can, designed to withstand temperatures and pressures encountered during normal use. As a result, during normal use, there is no physical danger of ignition or explosion and chemical danger of hazardous materials leakage.

However, if exposed to a fire, added mechanical shocks, decomposed, or added electric stress by misuse the cell case will be breached and hazardous materials may be released. Moreover, if heated strongly by the surrounding fire, acrid gas may be emitted.

Carcinogenicity:

NTP: None IARC Monograph: None OSHA Regulated: None

Medical Conditions Generally Aggravated by Exposure:

An acute exposure will not generally aggravate any medical condition.

Human health effects:

Inhalation: The steam of the electrolyte has an anesthesia action and stimulates a respiratory tract.

Skin contact: The steam of the electrolyte stimulates a skin. The electrolyte skin contact causes a sore and the stimulation on the skin.

Eye contact: The steam of the electrolyte stimulates eyes. The electrolyte eye contact causes a sore and the stimulation on the eye. Inflammation of the eyes may occur.

Environmental effects:

Since a battery cell remains in the environment, do not throw out it into the environment.

Specific hazards:

If the electrolyte contacts with water, it may generate detrimental hydrogen fluoride.

Since the leaked electrolyte is inflammable liquid, do not bring close to fire.

3. First aid measures

After inhalation contact: Make the victim blow his/her nose, gargle. Seek medical attention if necessary.

After skin contact: Remove contaminated clothes and shoes immediately. Immediately wash extraneous matter or contact region with soap and plenty of water.

After eye contact: Do not rub eyes. Immediately flush eyes with water continuously for at least 15 minutes. Seek medical attention.

After ingestion contact: Make the victim vomit. Immediately seek medical attention.

4. Fire-fighting measures

Extinguishing Media: Plenty of water, CO2 gas, nitrogen gas, chemical powder fire extinguishing medium and fire foam.

Specific methods of fire-fighting: When the battery burns with other combustibles simultaneously, take fire extinguishing method which corresponds to the combustibles. Extinguish a fire from the windward as much as possible.

Flammable Limits: Not available

5. Accidental release measures

The preferred response is to leave the area and allow the batteries to cool and the vapors to dissipate. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

6. Handling and storage

Avoid mechanical or electrical abuse. Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

7. Exposure controls/personal protection

Specific control parameter: Not necessary under conditions of normal use.

Personal protective equipment : Not necessary under conditions of normal use.

Respiratory protection (Specify Type): Not necessary under conditions of normal use.

Ventilation: Not necessary under conditions of normal use.

Protective Gloves: Not necessary under conditions of normal use.

Eye protection: Not necessary under conditions of normal use.

Other Protective(Clothing or Equipment): Not necessary under conditions of normal use.

8. Physical and chemical properties

Appearance

Physical state: Solid

Form: Cylindrical

Color: Metallic color

Odor: No odor

PH: N/A

Specific temperatures: Temperature ranges changes in physical state occur.

Flash point: N/A

Explosion properties: N/A

Density: N/A

Solubility: with indication of the solvent(s): Insoluble in water

9. Stability and reactivity

Stability: Stable

Conditions to Avoid: When cell is exposed to an external short-circuit, crushes, deformation, high temperature above 100 degree C, it will cause heat generation and ignition. Avoid direct sunlight and high humidity.

Hazardous Decomposition: or By-products: Acrid or harmful gas is emitted during fire.

Materials to avoid: Conductive materials, water, seawater, strong oxidizers and strong acids.

Hazardous polymerization will not occur.

10. Toxicological information

Acute toxicity:

Copper: 60-100mg sized coarse particulate causes a gastrointestinal disturbance with nausea and inflammation.

TDLo, hypodermic - Rabbit 375mg/kg

Organic electrolyte: LD50, oral - Rat 2,000mg/kg or more

Further toxicological information:

Aluminum: By the long-term inhalation of coarse particulate or fume, it is possible to cause lung damage (aluminum lungs).

Graphite: Long-term inhalation of high levels of graphite coarse particulate may cause lung disease or a tracheal disease.

11. Ecological information

Ecotoxic effects: No information is available.

Biodegradable : No information is available.

Mobility in soil : No information is available.

Bioconcentration or biological accumulation: No information is available.

Other harmful effects: Don't abandon the battery into environment, may cause water or soil pollution.

12. Disposal considerations

Waste Chemicals: Before disposal should refer to the relevant national and local laws and regulation.

Contaminated Packaging: Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

Disposal Recommendations: Refer to Waste chemicals and Contaminated packaging.

13. Transport information

This product has been tested for transport safety in accordance with Section 38.3 of the United Nations "Manual of Tests and Criteria" and meets the standard requirements (see Section 2).

EmS Number: F-A, S-I

Marine Pollutants: None

Environmental hazards: Not applicable.

Special user notes: Not applicable

Correct shipping name: LITHIUM ION BATTERIES (including lithium ion polymer batteries)

Hazard Classification: Class 9

UN/ID Number: UN3480

Packing Group: II

Air Transport:

Transport Label: Class 9 Lithium Battery or Sodium Ion Battery Dangerous Goods Label, Cargo Aircraft Only Label

The goods comply with the provisions of Section 1A of Packing Instruction 965 of the 66th Edition (2025 Edition) of the International Air Transport Association's Dangerous Goods Regulations.

Shipping:

Transport Label: Class 9 Lithium Battery Dangerous Goods Label

The goods comply with the provisions of Packaging Instruction P903 of the International Maritime Organization's International Maritime Dangerous Goods Code (Amdt. 42-24) (2024 Edition).

14. Regulatory information

Dangerous Goods Regulation (DGR)

Recommendations on the Transport of Dangerous Goods Model Regulations International Maritime

Dangerous Goods (IMDG)

Occupational Safety and Health Act (OSHA)

Toxic Substances Control Act (TSCA)

15. Other information

Make people:

Professional post: R&D Engineer

Name(sign): Dewei.Kong

Make unit:

Name: R&D Department

Address: No.90 Zijin Rd., New District, Suzhou, 215011, China

Date: 2026-06-29

Signature:

Yu. Xiao