

Report No.: 25360BC30012577

# MSDS REPORT

**Client Name: EcoFlow Inc.**

**Address: Room 401, Plant #1, Runheng Industrial Zone,  
Fuyuanyi Road, Zhancheng Community, Fuhai  
Street, Bao'an, Shenzhen, Guangdong, China**

**Product Name: Rechargeable Li-ion Battery System**

**Effective Date : Sep 10, 2025**

**Written by:** 杨艳萍

**Approved by:** 阳德勇

**Shenzhen Anbotek Compliance Laboratory Limited**

* The MSDS is prepared based on the information provided by client. The contents and formats of this MSDS are revised as per client's request	
<b>Section 1-Chemical Product and Company Identification</b>	
Product Name :	Rechargeable Li-ion Battery System
Model :	EF BD-5.1-S1, EF BD-10.2-S1, EF BD-15.3-S1, EF BD-20.4-S1
Trade Mark:	ECOFLOW
Ratings:	Nominal Voltage: 51.2Vdc Rated Capacity: 100Ah, 5.12kWh for EF BD-5.1-S1 200Ah, 10.24kWh for EF BD-10.2-S1 300Ah, 15.36kWh for EF BD-15.3-S1 400Ah, 20.48kWh for EF BD-20.4-S1
Weight:	54.97kg for EF BD-5.1-S1 109.94kg for EF BD-10.2-S1 164.91kg for EF BD-15.3-S1 219.88kg for EF BD-20.4-S1
Manufacturer:	EcoFlow Inc.
Manufacturer Address:	Room 401, Plant #1, Runheng Industrial Zone, Fuyuanyi Road,Zhancheng Community, Fuhai Street, Bao'an, Shenzhen, Guangdong,China
Telephone :	+8613575003981
Fax:	/
Importer:	ECOFLOW AUSTRALIA PTY LTD
Importer Address:	Suite 1, Level 8, 50 Margaret Street, Sydney, New South Wales 2000, Australia
Contacts:	Juanjuan Wu
Telephone:	+61 466834726
Email:	joy.wu@ecoflow.com
<b>Section 2- Hazard(s) identification</b>	
Emergency overview:	Not Applicable
Label elements:	
Hazard pictogram (s):	Not Applicable

Signal word:	Not Applicable	
Hazard statement (s):	Not Applicable	
Precautionary statement (s):		
Prevention:	Not Applicable	
Response:	Not Applicable	
Disposal:	Not Applicable	
Environmental hazards:	No relevant information	
Important symptoms:	See section 11 for more information	
<b>Section 3 - Composition and information on ingredients</b>		
Chemical Name	Percent of Content	CAS No.
Lithium iron phosphate (LiFePO <sub>4</sub> )	25%~35%	15365-14-7
Graphite (C)	8%~12%	7782-42-5
Lithium hexafluorophosphate (LiPF <sub>6</sub> )	15%~22%	21324-40-3
Aluminum (Al)	5%~8%	7429-90-5
Copper (Cu)	10%~15%	7440-50-8
High molecular polymer	3%~5%	24937-79-9
Nickel (Ni)	0.5%~1%	7440-02-0
Iron (Fe)	22%~30%	7439-89-6
<b>Section 4 - First-aid measures</b>		
Skin contact:	Not anticipated. If the battery is leaking and the contained material contacts the skin, flush with copious amounts of clear water for at least 15 minutes	
Eye contact:	Not anticipated. If the battery is leaking and the contained material contacts eyes, flush with copious amounts of clear water for at least 15 minutes. Get medical attention at once.	
Inhalation:	Not anticipated. If the battery is leaking, remove to fresh air. If irritation persists, consult a physician.	
Ingestion:	Not anticipated. If the battery is leaking and the contained material is ingested, rinse mouth and surrounding area with clear water at once. Consult a physician immediately for treatment.	

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<b>Section 5 - Fire-fighting measures</b>	
Unusual Fire and Explosion Hazards:	Battery may explode or leak potentially hazardous vapors subject to: exposed to excessive heat (above the maximum rated temperature as specified by the manufacturer) or fire, over-charged, short circuit, punctured and crushed.
Hazardous Combustion Products:	Fire, excessive heat, or over voltage conditions may produce hazardous decomposition products. Damaged batteries can result in rapid heating and the release of flammable vapors.
Extinguishing Media:	Dry chemical type extinguishers are the most effective means to extinguish a battery fire. A CO2 extinguisher will also work effectively.
Extinguishing Media:	Dry chemical type extinguishers are the most effective means to extinguish a battery fire. A CO2 extinguisher will also work effectively.
<b>Section 6 - Accidental release measures</b>	
<p>Personal precautions, protective equipment and emergency procedures:            If the battery is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area and allow the vapors to dissipate, avoid skin and eyes contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerated. If leakage of the battery happens, liquid could be absorbed by using sand, earth or other inert substance and contaminated area should be ventilated meantime.</p>	
<p>Environment precautions:            Do not allow product to reach sewage system or any water source.            Inform respective authorities in case of seepage into water course or sewage system.            Do not allow to enter sewers/ surface or ground water.</p>	
<p>Methods and material for containment and cleaning up:            If battery casing is dismantled, small amounts of electrolyte may leak. Collect all released material in a plastic lined container. Dispose of according to the local law and rules, avoid leached substances to get into the earth, canalization or waters.</p>	
<b>Section 7 - Handling and storage</b>	
Handling:	<p>The battery should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container.</p> <p>Do not short circuit terminals, or over charge the battery, forced over- discharge, throw to fire.</p> <p>Do not crush or puncture the battery, or immerse in liquids.</p>

Storage:	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.
<b>Section 8 - Exposure controls and personal protection</b>	
Engineering Controls:	Keep away from heat and open flame. Ventilation: Not necessary under conditions of normal use. In case of abuse, use adequate mechanical ventilation (local exhaust) for the battery that vent gas or fumes.
Respiratory Protection:	Not necessary under conditions of normal use. If battery is burning, leave the area immediately. During firefighting fireman should use self-contained breathing, full-face respiratory equipment. Fires may be fought but only from safe firefighting distance, evacuate all persons from the area of fire immediately.
Eye Protection:	Not necessary under conditions of normal use. Use safety glasses with side shields if handling a leaking or ruptured battery.
Body Protection:	Not necessary under conditions of normal use. Use rubber apron and protective working in case of handling a leaking or ruptured battery.
Protective Gloves:	Not necessary under conditions of normal use. Use chemical resistant rubber gloves if handling a leaking or ruptured battery.
Others:	Use good chemical hygiene practice. Wash hands thoroughly after cleaning-up a battery spill caused by leaking battery. No eating, drinking, or smoking in battery storage area.
<b>Section 9 - Physical and chemical properties</b>	
State:	Solid
Odor:	N/A
PH :	N/A
Vapor pressure:	N/A
Vapor density:	N/A
Boiling point:	N/A

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Solubility in water:	Insoluble
Specific gravity:	N/A
Density:	N/A
<b>Section 10 - Stability and reactivity</b>	
Conditions to Avoid:	Do not heat, throw into fire, disassemble, short circuit, immerse in water or overcharge, etc.
Incompatibility:	None during normal operation. Avoid exposure heat, open flame and corrosives.
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition Products:	The battery may release irritative gas once the electrolyte leakage.
<b>Section 11 - Toxicological information</b>	
The battery does not elicit toxicological properties during routine handling and use. If the battery is opened through misuse or damage, discard immediately. Internal components of cell are irritant and sensitization.	
Irritancy:	The electrolytes contained in this battery can irritate eyes with any contact. Prolonged contact with the skin or mucous membranes may cause irritation.
Sensitization:	No information is available.
Teratogenicity:	No information is available
Carcinogenicity:	No information is available
Mutagenicity:	No information is available
Reproductive toxicity:	No information is available.
<b>Section 12 - Ecological information</b>	
Ecological Toxicity	Not Applicable
Mobility in soil	Not Applicable
Persistence and Degradability	Not Applicable
Persistence and Degradability	Not Applicable
Other Adverse Effects	Not Applicable
<b>Section 13 - Disposal considerations</b>	
Product disposal recommendation	Observe local, state and federal laws and regulations.
Packaging disposal	Disposal must be made according to official regulations

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recommendation	
<b>Section 14 - Transport information</b>	
<p>According to PACKING INSTRUCTION 965 of IATA DGR 64th Edition for transportation, the special provision 230 of IMDG (inc Amdt 40-20). The batteries should be securely packed and protected against short-circuits. Examine whether the package of the containers are integrate and tighten closed before transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles. Don't put the goods together with the vehicle should prevent exposure, rain and high temperature. For stopovers, the vehicle should be away from fire and heat sources. When transported by sea, the assemble place should keep away from bedroom and kitchen, and isolated from the engine room, power and fire source. Under the condition of Road Transportation, the driver should drive in accordance with regulated route, don't stop over in the residential area and congested area. oxidizer and chief food chemicals. The transport vehicle and ship should be cleaned and sterilized before transport. During transport,</p>	
a) UN number	3480&3481
(b) UN Proper shipping name	LITHIUM ION BATTERIES (including lithium ion polymer batteries) or; LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or LITHIUM ION BATTERIES PACKED WITH EQUIPMENT (including lithium ion polymer batteries)
c) Transport hazard class(es)	9
d) Packing Instruction (if applicable)	965 IA
e) Marine pollutant(Yes/No)	No
f) Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)	No information available
g) Special precautions	No information available.
<b>Section 15 - Regulatory information</b>	
<p>The transport of rechargeable lithium-ion batteries regulated by the United Nations as detailed in the "model Regulations on the transport of dangerous Goods Ref. ST/SG/AC.10/1 Revision 22 2021".</p> <p>Defined by UN in the "Recommendations on the transport of Dangerous Goods Chapter 38.3 Manual of Tests and Criteria Ref. ST/SG/AC.10/11 Rev.7/Amend.1 2021". The Lithium-ion Cells and the battery Packs may or may not be assigned to the UN No. 3480 Class-9 that is restricted for transport.</p>	
<b>Section 16 - Any other relevant information</b>	

The information above is believed to be accurate and represents the best information currently available to us.

However, Concorde makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product;

it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

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