



Material Safety Data Sheet

Energy Storage Battery System B5000 Series

Version: V1.0 2025-08-23



Section 1-Chemical Product and Company Identification

Product Name :	Energy Sto	Energy Storage Battery System (contain lithium ion batteries)				
Model:	B5000-2S	B5000-3S	B5000-4S	B5000-5S	B5000-6S	B5000-7S
Trade Mark:	BLUETTI	BLUETTI				
Ratings:	14.75 kWh	22.12 kWh	29.50 kWh	36.87 kWh	44.24 kWh	51.61 kWh
Weight:	163 kg	235 kg	307 kg	379 kg	451 kg	523 kg
Manufacturer:	SHENZHE	SHENZHEN POWEROAK NEWENER CO., LTD				
Manufacturer Address:		F19, BLD No.1, Kaidaer Tongsha Rd No.168, Xili Street, Nanshan Shenzhen China				
Emergency Telephone:	+86-752-51	+86-752-5192099				
Importer:	BLUETTI E	BLUETTI ENERGY PTY LTD				
Importer Address:	Unit 15, 25	Unit 15, 25 Gibbes Street, Chatswood NSW 2067				
Contacts:	Tiger Han	Tiger Han				
Telephone	0488801566					
Email:	tiger.han@l	tiger.han@bluetti.com				
Other information	B700 is the battery module for the B5000-2S, B5000-3S, B5000-4S, B5000-5S, B5000-6S and B5000-7S					

Section 2- Hazards Identification

Hazard label	Class 9- Lithium batteries
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.

Section 3 - Composition and information on ingredients

Material or ingredient	Chemical Formula	CAS No.	Weight (%)
Lithium Iron Phosphate	LiFePO ₄	15365-14-7	38.4
Graphite	С	7782-42-5	19.4
Separator	(C ₂ H ₄) _n	9003-07-0	2.6
Aluminum Foil	Al	7429-90-5	3.7
Copper	Cu	7440-50-8	6.5
Aluminum Alloy	Al	7429-90-5	5.6
Styrene-butadiene rubber (SBR)	(C ₈ H ₈ .C ₄ H ₆) _n	9003-55-8	0.4
Carbon black	С	1333-86-4	0.3



Poly (vinylidene fluoride) (PVDF)	(CH ₂ CF ₂)n	24937-79-9	0.8
Ethylene carbonate(EC)	C ₃ H ₄ O ₃	96-49-1	5.4
Ethyl methyl carbonate(EMC)	C ₄ H ₈ O ₃	623-53-0	12.8
Vinylene Carbonate(VC)	C ₃ H ₂ O ₃	872-36-6	0.2
Lithium Difluorophosphate	LiPO ₂ F ₂	24389-25-1	0.2
Lead	Pb	7439-92-1	Not Detected
Cadmium	Cd	7440-43-9	Not Detected
Mercury	Hg	7439-97-6	Not Detected

Section 4 - First aid measures

Eye contact	Flush eyes with plenty of water for least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin contact	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 - Firefighting measures

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Flash Point	Not applicable	
Auto-Ignition Temperature	Not applicable	
Extinguishing Media	H ₂ O, CO ₂	
Special Fire-Fighting Procedures	Self-contained breathing apparatus	
Unusual Fire and Explosion Hazards	Cell may vent when subjected to excessive heat-exposing battery contents	
Hazardous Combustion Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.	

Section 6 - Accidental release measures

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.
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.
Methods and material for containment and	If battery casing is dismantled, small amounts of electrolyte may leak. Collect all released material in a plastic lined container. Dispose of



cleaning up:	according to the local law and rules, avoid leached substances to get into
	the earth, canalization or waters.

Section 7- Handling and storage

Handling	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. 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.
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

Section 8 – Exposure controls and personal protection

Engineering Controls	Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor. Keep away from heat and open flame. Store in a cool, dry place.
Personal Protective Equipment	Respiratory Protection: Not necessary under normal conditions. Skin and body Protection: Not necessary under normal conditions, Wear suitable protective clothing and gloves if handling an open or leaking battery. Personal Protective Equipment Hand protection: Wear suitable gloves if handling an open or leaking battery. Eye Protection: Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.
Other Protective Equipment	Have a safety shower and eye wash fountain readily available in the immediate work area.
Hygiene Measures	Do not eat, drink, or smoke in work area. Maintain good housekeeping.

Section 9 – Physical and chemical properties

Physical state	Solid
Color	White and grey
Odour	If leaking, smells of medical ether.
Melting point/freezing point	Not applicable
Boiling Point and Boiling range	Not Applicable
Flammability	Not Applicable
Lower and upper explosion limit/flammability limit	Not Applicable
Flash point	Not Applicable
Auto-ignition temperature	Not applicable



Decomposition temperature	Not applicable
pН	Not applicable
Kinematic viscosity	Not applicable
Solubility in water	Not applicable
Partition coefficient: n- octanol/water (log value)	Not applicable
Vapour pressure	Not applicable
Density and/or relative density	Not applicable
Relative vapour density	Not applicable
Particle characteristics	Not applicable

Section 10 - Stability and reactivity

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Stability	The product is stable under conditions described Section 7	
Conditions to Avoid	Heat above 70° C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions.	
Incompatible Materials	Oxidants, acids, bases Oxidizing agents, acid, base.	
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.	
Possibility of Hazardous Reaction	Not applicable	
Other information	If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalies, halogenated Hydrocarbons	

Section 11 - Toxicological information

Irritation	Risk of irritation occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, irritation to the skin, eyes and respiratory tract may occur.	
Sensitization	Not applicable	
Neurological Effects	Not applicable	
Teratogenicity	Not applicable	
Reproductive Toxicity	Not applicable	
Mutagenicity (Genetic Effects)	Not applicable	
Toxicologically Synergistic Materials	Not applicable	

Section 12 – Ecological information

Ecological Toxicity	None known at present
Mammalian effects:	None known at present



Mobility in soil	None known at present
Persistence and Degradability	None known at present
Bioaccumulation potential	Slowly Bio-degradable
Other Adverse Effects	None known at present

Section 13 – Disposal considerations

Product disposal recommendation	Do not incinerate, or subject cells to temperatre 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.
Packaging disposal recommendation	Disposal must be made according to official regulations

Section 14 – Transport information

Label for conveyance	Lithium Battery Label		
UN Number	UN 3480		
Marine pollutant	No		
Transport hazard class	9		
Packing group number	965 or 956	П	
	967		
UN Proper shipping name	Lithium ion Batteries (Including lithium ion polymer batteries) Lithium ion Batteries packed with equipment (Including Lithium ion polymer batteries) Lithium ion Batteries contained in equipment (Including lithium ion polymer batteries) Can be shipped by air in accordance with international Civil Aviation		
ICAO/IATA	Organization (ICAO), TI or International Air Transport Association (IATA) DGR 64th Packing Instructions Section IA of 965 or Section I of 966 \sim 967 appropriately.		
IMDG CODE	International Maritime Dangerous Goods Code IMDG CODE (Amdt 41-22)		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
Regulations concerning the International Carriage of Dangerous Goods by Rail			

Section 15 – Regulatory information

Dangerous Goods Regulations	
Recommendation on the Transport of Dangerous Goods Model Regulations	
International Maritime Dangerous Goods	
Technical Instructions for the Safe Transport of Dangerous Goods	
Classification and code of dangerous Goods	
Consumer Product Safety Act	



Federal Environmental Pollution Control Act

Resource Conservation and Recovery Act

European Agreement concerning the International Carriage of Dangerous

Regulations concerning the International Carriage of Dangerous

In according with all Federal, State and local laws.

Section 16 – Any other relevant information

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.