

SAFETY DATA SHEET

This Safety Data Sheet contains important health, safety, and environmental information. Please read carefully before handling the product and retain for future reference.	EN	08.2026
Dieses Sicherheitsdatenblatt enthält wichtige Informationen zu Gesundheit, Sicherheit und Umwelt. Bitte lesen Sie es sorgfältig durch, bevor Sie das Produkt handhaben, und bewahren Sie es für zukünftige Nachschlagezwecke auf.	DE	

Phaesun Sun Save Lithium Batteries

Sun Save 12-500 H	340640
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1. IDENTIFICATION

Manufacturer:
Phaesun GmbH
Brühlweg 9
87700 Memmingen

Distributed by:
Phaesun GmbH
Brühlweg 9
87700 Memmingen

For Information:
info@phaesun.com

Trade Name (as used on label):
LiFePO4 Battery

Chemical Family / Classification:
Electric Storage Battery

Date Issued:
August 2026

Version: 1.0

For Emergency:
Phaesun GmbH
+49 (163) 1468930

SECTION 2 HAZARDS IDENTIFICATION

Classification of Danger	see section 14
Invasion Route	eyes, skin contact, ingestion
Health Hazard	the lithium ion batteries are not hazardous when used according to the instructions of manufacturer under normal conditions. In case of abuse, there's risk of rupture, fire, heat, leakage of internal components, with could cause casualty loss. Abuses include but not limited to the following cases: charged for long time, short circuited, put into fire, whacked with hard object, punctured with acute object, crushed, and broken.
Environmental Hazard	Not reported
The Danger of Burning and Exploding	May occur fire or explosion in high temperature or short circuit.

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENT

Hazardous Ingredients (Chemical Name)	Concentration or concentration ranges (%)	CAS Number
Lithium Iron Phosphate Carbon Coated	38.86	15365-14-7
Graphite	18.20	7782-42-5
Copper	1.68	7440-50-8
EC	6.86	96-49-1
EMC	1.14	623-53-0
DEC	9.15	105-58-8
PC	2.86	108-32-7
LiPF6	2.29	21324-40-3
Polypropylene	4.20	9003-07-0
Aluminum	14.76	7429-90-5

SECTION 4 FIRST AID MEASURES

The lithium ion batteries are not hazardous with eye and skin contact under normal circumstance. In case of internal hazardous substance leaking an hazardous substance, following measures should be taken if body parts contact with these substance

After Eye Contact:

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

After Skin Contact:

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

After Inhalation:

If inhaled, quickly leave the site to fresh air. If you stop breathing, perform artificial respiration. If breathing is difficult, supply oxygen.

After Ingestion:

If swallowed, wash out mouth with water provided person is conscious Call a physician.

SECTION 5 FIRE-FIGHTING MEASURES

Characteristics of Hazard:

Toxic fumes; gases or vapors may evolve on burning.

Hazardous Combustion Products:

CO, CO₂, HF, phosphorus fluoride.

Fire-extinguishing Methods and Extinguishing Media:

Copious amounts of cold water are an effective extinguishing medium for lithium batteries. Don't use warm or hot water. Don't use Halon type extinguishing material.

May use dry powder, sand, earth.

Attention in Fire-extinguishing:

The Firemen should put on antigas masks and full fire-fighting suits.

SECTION 6 ACCIDENTAL RELEASE MEASURES

When leakage of batteries happens, liquid could be absorbed with sands, earth, or other inert substance, and the contaminated area should be ventilated meantime.

Damaged batteries that are not hot or burning should be placed in a sealed plastic bag or container.

SECTION 7 HANDLING AND STORAGE

Handling:

don't handling the batteries in manner that allows terminals to short circuit

Conditions for safe storage, including any incompatibilities:

Requirements to be met by storerooms and receptacles. Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Maximum Allowable Concentration:
No Standard available

Engineering Controls:
no engineering controls are required for handling batteries that have not been damaged. Personal protective equipment for damaged batteries should include chemical resistant gloves and safety glasses.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties	
Appearance	Black
Form	Prismatic
Odour	Odorless

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.

Incompatibility: Oxidizing agents.

Conditions to Avoid: Heat and open flame, short circuit, and water.

Hazardous polymerization: Will not occur.

Decomposition Products: CO, CO2, HF, Phosphorus fluoride.

SECTION 11 TOXICOLOGICAL INFORMATION

Product does not elicit toxicological properties during routine handling and use.

SECTION 12 ECOLOGICAL INFORMATION

Ecological Toxicity: N/A

Biodegradability: N/A

Non-biodegradability: N/A

Other Hazardous: Will not effect environmental evidently

SECTION 13 DISPOSAL CONSIDERATION

Waste Treatment:

Recycle or dispose of in accordance with government, state & local regulations.

Attention for Waste Treatment:

Deserted batteries couldn't be treated as ordinary trash. Couldn't be thrown into fire or placed in high temperature. Couldn't be dissected, pierced, crushed or treated similarly. Best way is recycling.

SECTION 14 TRANSPORT INFORMATION

UN NO.	UN3480 UN3481
Proper Shipping Name	UN3480 Lithium Ion Batteries UN3481 Lithium Ion Batteries Packed With Equipment UN3481 Lithium Ion Batteries Contained In Equipment
Label for conveyance	Lithium Battery or Sodium Ion Battery Class 9 Label Cargo aircraft Only Label
Marine pollutants	No
EMS	F-A,S-I

The dangerous goods regulations require that each battery design be subject to tests contained in UNITED NATIONS the "Manual of Test and Criteria" Section 38.3.
Report No.: S03A25031429U00101.

The package of battery should be complied with the requirements of Packing Instruction 965 Section IA / 966 Section I / 967 Section I of IATA DGR 67th Edition for transportation.

The package of battery complies with IMDG-CODE (42-24), The goods to be transport as Dangerous Good.

SECTION 15 REGULATION INFORMATION

Regulatory information:
Recommendations on the transport of dangerous goods-model Regulations 23rd, IATA dangerous goods regulations 67th, International Maritime Dangerous Goods Code (42-24), European Agreement concerning the International Carriage of Dangerous Goods by Road (2025), Regulations concerning the International Carriage of Dangerous Goods by Rail (2025)

SECTION 16 OTHER INFORMATION

This information is not effective to all the batteries manufactured by JIANGXI SUPERCCELL LITHIUM BATTERY CO.,LTD.
This information comes from reliable sourcesbut no warranty is made to the completeness and accuracy of information contained. Guangdong ESTL Technology Co., Ltd. doesn't assume responsibility forany damage or loss because of misuse of batteries. User's should grasp the correct use method and be responsible for the use of batteries.