Enjoy Green Energy

Material Safety Data Sheet

Advanced Lithium Battery Superieur

12 Volt | 140Ah | 1848 Wh | Art. No. 40291215
12 Volt | 140Ah | 1848 Wh | Art. No. 40291220
12 Volt | 280Ah | 3696 Wh | Art. No. 40291230
12 Volt | 420Ah | 5544 Wh | Art. No. 40291270
12 Volt | 560Ah | 7392 Wh | Art. No. 40291240
24 Volt | 140Ah | 3696 Wh | Art. No. 40291250
24 Volt | 280Ah | 7392 Wh | Art. No. 40291260

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1. Chemical product and company identification

Name of Sample:	Advanced Lithium Battery Superieur
Type/Mode:	12 V/140 Ah
Commissioned by:	WhisperPower B.V.
Commissioner address:	Kelvinlaan 82, 9207 JB Drachten, The Netherlands
Manufacturer:	WhisperPower B.V.
Manufacturer address	Kelvinlaan 82, 9207 JB Drachten, The Netherlands
Inspection according to:	EEC Directive 93/112/EC - UN "Recommendations on the TRANSPORT OF DANGEROUS GOODS"
Date of issue:	15-09-2025
Approved by:	M.B. Favot WhisperPower Product Manager

2. Composition information

Common Chemical Name	Chemical Formula	CAS No.	Wt %
(LiFePO4)	LiFePO4	15365-14-7	38.09C
Super-p	C	1333-86-4	0.62
	$C_{12}H_{14}$	9003-55-8	0.34
PVDF	$[-CH_2-CF_2-]n$	24937-79-9	1.04
Graphite	C	1333-86-4	20.10
Electrolyte	LiPF6	21324-40-3	1.10
Copper Foil	Cu	7440-50-8	9.22
Aluminum Foil	Al	7429-90-5	4.00
Lead	Pb	7439-92-1	Not Detected
Cadmium	Cd	7440-43-9	Not Detected
Mercury	Hg	7439-97-6	Not Detected

3. Hazards identification

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	1848Wh, The watt-hour rate of the battery is 1848 Wh, which belong to the Class 9 dangerous goods.

4. First aid measures

Once battery shell rupture, content contact with the human body will produce harm, once contact, should take the following emergency measures:
Eye: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: 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

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 Hazards: Cell may vent when subjected to excessive heat-exposing battery contents.
Hazardous Combustion Products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

6. Accidental release measures

Steps to be taken in case Material is Released or Spilled
If the battery material is released, remove operators 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. Use up the metal lithium inside the lithium metal battery, and delivered to professional institutions for further treatment.

7. Handling and storage

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.

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.

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.

9. Physical and chemical properties

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

10. Stability and reactivity

Stability: Product is stable under conditions described in Section 7.
Conditions to Avoid: Heat above 70°C or incinerate. Deform. Mutilate. Crush. Disassemble. Over-charge. 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.

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

12. Ecological information

Mammalian effects: None known at present.
Eco-toxicity: None known at present.
Bioaccumulation potential: Slowly Bio-degradable.
Environmental fate: None known environmental hazards at present organs nerves, liver and kidneys.

13. Disposal consideration

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.

14. Transport information

Label for conveyance: class 9 lithium battery hazard label, Cargo Aircraft Only Label
UN: 3480
UN Number: 3480
EmS: F-A ,S-I
EmS No: F-A ,S-I
Marine pollutant: No
Proper Shipping name: Lithium-ion batteries (Including lithium-ion polymer batteries)
Hazard Classification: The goods are complied with the requirements of Section IA of Packing Instructions 965 of 60th DGR Manual of IATA(2019 edition), Packing Instruction 903 of IMDG CODE(Amdt. 38-16)(2016 Edition), including the passing of the UN38.3 test.

15. Regulation information

- Law information
- Dangerous Goods Regulations
- Recommendations on the Transport of Dangerous Goods Model Regulations
- International Maritime Dangerous Goods
- List of dangerous goods
- European Agreement concerning the International Carriage of Dangerous Goods by Road
- Technical Instructions for the Safe Transport of Dangerous Goods
- Classification and code of dangerous goods
- Occupational Safety and Health Act (OSHA)
- Toxic Substance Control Act (TSCA)
- Consumer Product Safety Act (CPSA)
- Federal Environmental Pollution Control Act (FEPCA)
- The Oil Pollution Act (OPA)
- (302/311/312/313)
- Superfund Amendments and Reauthorization Act Title (302/311/312/313) (SARA)
- Resource Conservation and Recovery Act (RCRA)
- Safety Drinking Water Act (CWA)
- California Proposition 65
- Code of Federal Regulations (CFR)
  In accordance with all Federal, State and local laws.

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Important

1. The test report is invalid without the official stamp of CVC.
2. Nobody is allowed to photocopy or partly photocopy this test report without written permission of CVC.
3. The test report is invalid without the signatures of Ratifier, Reviewer and Testing engineer.
4. The test report is invalid if altered.
5. Objections to the test report must be submitted to CVC within 15 days.
6. The test report is valid for the tested samples only.
7. This report is only used for internal quality controlling of the client.

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