

Material Safety Data Sheet - Starter Batteries

MSDS DATE: 10.12.2021

SECTION 1: IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1 PRODUCT IDENTIFIER

Description: Super B Starter Batteries

Synonyms: Secondary (rechargeable) Li-ion Battery, Lithium Iron Phosphate (LiFePo4) Starter Battery

Type	Specifications	EAN Code
Andrena 12V2.5Ah	12V; 2.5Ah; 30Wh	8718531360006
Andrena 12V5Ah	12V; 5Ah; 60Wh	8718531360013
Andrena 12V7.5Ah	12V; 7.5Ah; 90Wh	8718531360020
Andrena 12V10Ah	12V; 10Ah; 120Wh	8718531360037
Andrena 12V15Ah	12V; 15Ah; 180Wh	8718531360044
Andrena 12V20Ah	12V; 20Ah; 240Wh	8718531360051
Andrena 12V15Ah-SC	12V; 15Ah; 180Wh	8718531360068
Andrena 12V20Ah-SC	12V; 20Ah; 240Wh	8718531360075
Andrena 12V25Ah	12V; 25Ah; 300Wh	8718531360082
Mason 12V20Ah	12V; 20Ah; 240Wh	8718531361812
Mason 12V25Ah	12V; 25Ah; 300Wh	8718531361775

Use: Starter Battery

1.2 SUPPLIER

Manufacturer: Super B Lithium Power B.V.

Address: Europalaan 202
7559 SC Hengelo (Ov)
The Netherlands

Emergency telephone number: +31 (0)88 0076 000

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Emergency overview:

The rechargeable Li-ion battery cells described in this Safety Data Sheet are sealed units

which are not hazardous when used according to the recommendations of the manufacturer. The product should not be disassembled. Do not short circuit, puncture, incinerate, crush, immerse in water, or expose to temperatures outside the by the manufacturer declared temperature range of the product. If this occurs, electrolyte leakage, or battery vent/explosion/fire may follow, depending on the circumstances.

Routes of entry:

Risk of exposure will only occur if the battery cell is mechanically, thermally, or electrically abused and the enclosure is compromised. If this occurs, exposure to electrolyte solutions contained within the battery cell may occur by inhalation, eye contact, skin contact and ingestion.

Potential health effects:

- **Eyes:** Contact between the battery and eye will not cause any harm. Eye contact with the contents of a ruptured battery can cause severe irritation to the eye.
- **Skin:** Contact between the battery and skin will not cause any harm. Skin contact with positive and negative terminals of high voltages may cause burns to the skin. Skin contact with a ruptured battery can cause skin irritation.
- **Inhalation:** Inhalation of material from a sealed battery is not an expected route of exposure. Vapours or mists from a ruptured battery may cause respiratory irritation.

2.2 LABEL ELEMENTS

The rechargeable Li-ion battery described in this Safety Data Sheet is marked with the symbols listed under section 15.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

Chemical name: Lithium Iron Phosphate
Chemical formula: LiFePO_4
Chemical family: Lithium-ion

3.2 MIXTURES

Under normal use, this battery is not expected to expose the user to hazardous ingredients. Each battery consists of a plastic container containing several sealed Lithium Iron Phosphate cells and materials of construction of which the following could potentially be hazardous



upon release.

SECTION 4: FIRST AID MEASURES

In case of electrolyte leakage, or battery rupture/vent/explosion, which results in direct contact with the ingredients, please evacuate all persons from the contaminated area and ensure maximal ventilation in order to break up corrosive gas, smoke and unpleasant odors. If it occurs, following first aid measures must be taken:

- Eye contact: Wash affected eye with lukewarm water for at least 30 minutes. Rinse with saline solution if possible. Seek medical attention.
- Skin contact: Wash affected area with lukewarm water for at least 30 minutes. If irritation or pain persists, seek medical attention.
- Ingestion: Move victim to fresh air and remove source of contamination from area. Drink water and induce vomiting; seek medical attention.
- Inhalation: Move victim to fresh air and remove source of contamination from area. Seek medical attention.

Caution: In all cases if irritation persists, seek medical assistance at once.

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Water, carbon dioxide, dry chemical powder and foam are most effective means to extinguish a battery fire.

5.2 FIREFIGHTING PROCEDURE

Put on fully protective gear, including self-contained breathing apparatus, goggles, fireproofing jacket and gloves.

5.3 UNUSUAL FIRE AND EXPLOSION HAZARDS

Exposing battery cell to excessive heat, fire or over voltage condition may cause a leak, fire, hazardous vapors and hazardous decomposition products. Damaged or opened cells or batteries can result in rapid heating and the release of flammable vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

The ingredients contained within the battery cells are only expelled under abusive conditions. In the case of spillage, use a bonding agent, such as sand or vermiculite to cover the battery. Place in an approved container and dispose in accordance with section 13.



Caution: Avoid any direct and indirect contact with the released ingredients.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

The battery must be transported in its original or equivalent packing.

Do not expose the battery to high temperatures or fire.

Do not disassemble, short circuit, puncture, incinerate or crush the battery.

Do not mix batteries of different types and brands. Do not mix new and used batteries.

Avoid deep discharge of the battery.

Follow manufacturers recommendations regarding maximum recommended currents and operating temperature range.

7.2 STORAGE

Insulate positive and negative terminals to avoid short circuit. Follow manufacturers recommendations regarding storage temperatures. Store in well ventilated area away from moisture, sources of heat and open flames. Avoid direct sunlight. Elevated temperatures can result in reduced battery life.

7.3 OTHER

Follow manufacturer's instructions for use, installation and storage as described in the user manual that is supplied with the battery.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

- Ventilation requirements: Not necessary under normal use. Room ventilation may be required in areas where there are open or leaking batteries.

8.2 PERSONAL PROTECTIVE MEASURES

- Respiratory protection: Not necessary under normal use. In case of battery or cell rupture, use a self-contained full face respiratory mask.
- Eye protection: Not necessary under normal use. Wear safety goggles if handling a ruptured or leaking battery cell.
- Hand protection: Not necessary under normal use. Wear Viton rubber gloves if handling a ruptured or leaking battery cell.
- Skin protection: Not necessary under normal use. Wear rubber apron and Viton rubber gloves if handling a ruptured or leaking battery cell.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid	Odor Type:	Odorless
Appearance:	Battery	Odor Threshold:	Not Applicable
pH:	Not Applicable	Evaporative Rate: (n-Butyl Acetate = 1)	Not Applicable
Relative Density:	Not Applicable	Auto Ignition Temperature (°C):	Not Applicable
Boiling Point:	Not Applicable	Flammability Limits (%):	Not Applicable
Melting Point:	Not Applicable	Vapor Pressure: (mm Hg @ 20 °C)	Not Applicable
Viscosity:	Not Applicable	Vapor Density: (Air = 1)	Not Applicable
Oxidizing Properties:	Not Applicable	Solubility in Water:	Insoluble
Flash Point and Method (°C):	Not Applicable	Water/ Oil distribution coefficient:	Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity: The battery is stable under conditions as described in section 7.

Conditions to Avoid: Avoid exposing of the battery to high temperatures or fire. Do not disassemble, short circuit, puncture, incinerate or crush the battery. Avoid deep discharge of the battery.

Materials to Avoid: Not Applicable.

Hazardous Decomposition Products: Combustible vapors may be released if exposed to fire.

Possibility of Hazardous Reactions: Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

Irritation: Risk of irritation only occurs if battery cells are mechanically, thermally or electrically abused, which results in leakage or venting of the battery cells:

- Eye contact: Eye irritant.
- Skin contact: Skin irritant.
- Inhalation: Lung irritant



Neurological Effects: Not applicable.

Sensitization: Not applicable.

Teratogenicity: Not applicable.

Reproductive Toxicity: Not applicable.

Toxicologically Synergistic Materials: Not available.

SECTION 12: ECOLOGICAL INFORMATION

Bioaccumulation potential: Not available.

Persistence and degradability: Not available.

Mobility: Not available.

Ecotoxicity: Not available.

Other adverse effects: Not available.

When properly used and disposed, the battery can be recycled and do not present environmental hazard during and after their life time.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of the Li-ion battery in accordance with local, state and federal laws and regulations. Always discharge the battery before disposal. Use electrical tape or other approved covering over the battery connection points to prevent short circuits.

Battery recycling is encouraged. Batteries may be returned to the manufacturer. Contact your supplier for recollection and recycling of the battery or contact an authorized waste management company.

USA: Dispose of in accordance with local, state and federal laws and regulations.

Canada: Dispose of in accordance with local, state and federal laws and regulations.

EC: Dispose of in accordance with relevant EC Directives.



SECTION 14: TRANSPORTATION

14.1 TRANSPORT CLASSIFICATION

ROAD TRANSPORTATION

Proper shipping name: Lithium-ion batteries
Hazard class: Class 9
ID number: UN3480
Packing group: Not Applicable
Packing instruction: PI 903

Section IB for Andrena 12V2.5Ah, Andrena 12V5Ah and Andrena 12V7.5Ah.

Section IA for Andrena 12V10Ah, Andrena 12V15Ah, Andrena 12V20Ah, Andrena 12V15Ah-SC, Andrena 12V20Ah-SC, Andrena 12V25Ah, Mason 12V20Ah and Mason 12V25Ah.

Label statement See section 14.2

WATER TRANSPORTATION

Proper shipping name: Lithium-ion batteries
Hazard class: Class 9
ID number: UN3480
Packing group: Not Applicable
Packing instruction: PI 903

Section II for Andrena 12V2.5Ah, Andrena 12V5Ah and Andrena 12V7.5Ah.

Section IA for Andrena 12V10Ah, Andrena 12V15Ah, Andrena 12V20Ah, Andrena 12V15Ah-SC, Andrena 12V20Ah-SC, Andrena 12V25Ah, Mason 12V20Ah and Mason 12V25Ah.

Label statement See section 14.2

AIR TRANSPORTATION

Proper shipping name: Lithium-ion batteries
Hazard class: Class 9



ID number: UN3480
Packing group: Not Applicable
Packing instruction: PI 965

Section II for Andrena 12V2.5Ah, Andrena 12V5Ah and Andrena 12V7.5Ah.

Section IA for Andrena 12V10Ah, Andrena 12V15Ah, Andrena 12V20Ah, Andrena 12V15Ah-SC, Andrena 12V20Ah-SC, Andrena 12V25Ah, Mason 12V20Ah and Mason 12V25Ah.

Label statement See section 14.2

14.2 TRANSPORT INFORMATION



Use Class 9 Miscellaneous Dangerous Goods and UN Identification labels for transportation of Lithium-ion batteries which are assigned Class 9. Refer to relevant transportation documents. Lithium and Lithium-ion cells and batteries are regulated in the U.S. in accordance with Part 49 of the Code of Federal Regulations, (49 CFR Sections 105-180) of the U.S. Hazardous Materials Regulations.

SECTION 15: REGULATORY INFORMATION

This MSDS is made in compliance with Regulation No 1907/2006.
No other regulatory information is applicable for the used substances and mixtures.

SECTION 16: OTHER INFORMATION

Avoid any mechanical or electrical abuse of the Li-ion battery. Install and use the battery in accordance with the instructions provided in the user manual.

Disclaimer: The information and recommendations set forth are made in good faith and accurate at the date of preparation. Super B makes no warranty expressed or implied with respect to this information and recommendations and disclaims all liability from reliance on it.