



Battery-Box Premium LVL 15.4 Material Safety Data Sheet

MANUFACTURER: Shenzhen BYD Electronics Co., Ltd.

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Section 1 - Product and Company Identification

Product name: Battery-Box Premium LVL15.4 Module
Manufacturer: Shenzhen BYD Electronics Co., Ltd.
Product: Lithium Ion Battery
Phone: +86 755 8988 8888, Emergency: +61 403 712 581
Address: Room 301 of BYD A-4 Building, No.1 Yan'an Road, Kuichong Street, Dapeng New District, Shenzhen
Importer: BYD Australia Pty Ltd
ABN: 82 166 009 687
ACN: 166 009 687
Address: Suite 401, Level 4, 2-4 Lyonpark Road Macquarie Park NSW 2113
Mailing Address: PO Box 1295 Macquarie Centre Post Office, Macquarie Centre NSW 2113
Email: info.au@byd.com
Customer Care Center:
Phone: 1800 888 293, Emergency: +61 280 056 688
Business Hours: Monday to Friday 9:30am to 5:30pm AEST, close on weekends and public holidays
Email: bydservice.au@byd.com

Prior Notice of Usage

You are kindly requested to use the battery which is delivered from BYD COMPANY LIMITED in strict accordance with the specification and remarks include at the end of the document.
 Due to improper usage of the battery, an accident or a fire may occur due to the battery generating heat, catching fire or rupture, smoke.

Section 2 - Hazard Identification

Emergency overview: A lithium ion battery is normally stable under appropriate handling and storage conditions. If a lithium ion battery generates abnormal heat, leave away from the battery to avoid inhaling internal materials. Chemicals which are contained in lithium ion or batteries have some toxicity and it may cause irritation.

Hazard label	No.9A hazard label 
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	Product belong to the Lithium ion batteries

Section 3 - Composition/Information on ingredients

Hazardous components	Content/%	CAS NO.
Lithium Iron Phosphate	27 - 37	7782-42-5
Graphite	9 -19	7782-42-5
Lithium hexafluorophosphate Electrolyte	16 - 23	21324-40-3 /
Aluminum	2.0 - 3.6	7429-90-5
Copper	8 - 16	7440-50-8
Polypropylene (ethylene)	10 - 23	9003-07-0

Section 4 - First Aid Measures

Skin contact	Remove contaminated clothes and shoes immediately. Wash the adherence or contact region with soap and plenty of water. Seek medical attention immediately.
Eye contact	Immediately flush eyes with plenty of water continuously for at least Eye contact 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention immediately.
Inhalation	Cover the victim in a blanket, move to the place of fresh air and keep quiet. Seek medical attention immediately. When dyspnea (breathing difficulty) or asphyxia (breath-bald), give artificial respiration immediately.
Ingestion	Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.

Section 5 - Fire Fighting Measures

Suitable Extinguisher	Dry power, sand, carbon dioxide (CO ₂).
Unsuitable Extinguisher	Water, water spray.
Specific hazards	Risk of receptacle bursting.
Special protective equipment for firefighters	In the event of a fire, wear full protective clothing and self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.
NFPA	Health: 0 Flammability: 1 Instability : 0
Hazardous combustion products	Carbon monoxide, carbon dioxide, lithium oxide fumes.
Hazchem Code	2Y.

Section 6 - Accidental Release Measures

Personal precautions	Remove personnel from area until dissipate. Use personal protective equipment. Avoid contact with skin and eyes.
Environmental precautions	◆ Prevent further leakage or spillage if safe to do so. ◆ Do not allow material to contaminate ground water system. ◆ Do not throw out into the environment.
Methods for cleaning up	Dilute the leaked electrolyte with water and neutralize with diluted sulfuric acid. The leaked solid is moved to a container. The leaked place is fully flushed with water.

Section 7 - Handling and Storage

Handling	◆ Technical measures: Prevention of user exposure; not necessary under normal use. ◆ Prevention of fire and explosion: Not necessary under normal use. ◆ Precaution for safe handling: Do not damage or remove the external shell. ◆ Specific safe handling advice: ● Never throw out battery in a fire or expose to high temperatures(above 60℃). ● Do not soak battery in water and seawater. ● Do not expose to strong oxidizers. ● Do not give a strong mechanical shock or throw down. Never disassemble, modify or deform. ● Do not connect the positive terminal to the negative terminal with electrically conductive material. In the case of charging, use only dedicated charge or charge according to the conditions specified by the supplier.
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Storage	◆ Storage conditions (suitable to be avoided).
	◆ Avoid direct sunlight, high temperature, and high humidity. Store in cool place (temperature: -10~45 C ,humidity: 45~85%).
	◆ Incompatible products: Conductive materials, water, seawater, strong oxidizers and strong acids.
	◆ Packing material: Insulative and tear-proof, waterproof materials are recommended.

Section 8 - Exposure Controls and Person Protection.

Engineering controls	Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fume and vapor.
Exposure limits	Airborne exposures to hazardous substances are not expected when product is used for its intended purpose.
Eye protection	Not necessary under normal conditions. Wear safety glasses if handling an open or leaking cell.
Skin protection	Not necessary under normal conditions. Wear neoprene or nature rubber gloves if handling an open or leaking cell.
Other Protective Equipment	Not necessary under normal conditions. 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 areas.

Section 9 - Physical and Chemical Properties

Appearance and odor	N/A	Vapour pressure (KPa)	N/A
PH	N/A	Heat of combustion (KJ/mol)	N/A
Flash point(°C)	N/A	Auto-ignition temperature (°C)	N/A
Melting point (°C)	N/A	Solubility	Insoluble in water
Boiling point (°C)	N/A	Lower explosive limits % (V/V)	N/A
Relative density (water=1)	N/A	Upper explosive limits % (V/V)	N/A
Relative Vapour density (air=1)	N/A		

Section 10 - Stability and Reactivity

Stability	Product is stable under storage conditions described in Section 7.
Incompatibilities	Strong oxidizing agents, acids.
Conditions to avoid	◆ Direct sunlight, high temperature and high humidity. ◆ Do not heat above 60°C , incinerate, or expose contents to water.
Hazardous Polymerization	Will not occur.
Hazardous decomposition	When a battery is heated strongly by the surrounding fire, acrid or harmful fume may be emitted.

Section 11 - Toxicological Information

- ◆ None unless internal materials are exposed.
- ◆ Toxic information is available on the ingredients noted in section 3, but generally not available to intact batteries as used by customers.
- ◆ In case of internal gas released or electrolyte spilled, electrolyte and organic solvents has small toxicity and may cause irritation of skin or eyes. Released gas may also cause irritation of skin of eyes.

Section 12 - Ecological Information

Ecological toxicity	No data available.
Environmental	Since a battery cell and the internal materials remain in the environment, it can't be degradable. Do not throw out into the environment.
Bioaccumulation	No information.

Section 13 -Disposal Considerations

Disposal measures	Do not throw out a used battery cell. Lithium ion cells and batteries can be disposable in accordance with appropriate federal, state and local regulations. However, we recommend recycling, since these cells and batteries contain recyclable material (LiFePO ₄).
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Section 14 - Transportation

UN Number: UN3480
 PROPER SHIPPING NAME: Lithium Ion Battery Packing Group: II
 sea contamination: None Land transport(ADR/RID/ADG): Class 9
 Sea transport (IMDG): Class 9 Air transport (ICAO-TI/IATA DGR): Class 9
 IMDG Code/TDG/ADG Packing Instruction: P903
 IMDG Code/TDG/ADG Special provisions: 230, 310, 348, 376, 377, 384, 387

National regulations

This battery type is classified as dangerous goods for transport, because the watt-hour rating of the battery exceeds 100 Wh. We also declare that this battery type meets the requirements of each test in the UN Manual of tests and Criteria Part III, Subsection 38.3 (ST/SG/AC.10/11/Rev.7).

Section 15 - Regulatory Information

Major applicable regulations for the transportation of lithium-ion cells and batteries are as follows:

- ◆ The UN Regulations, United Nations ST/SG/AC.10/1/Rev 22. Recommendations on the Safe Transport of Dangerous Goods.
- ◆ The International Civil Aviation Organization (ICAO) Technical Instructions for the Safe Transport of Dangerous Goods by Air Transport.
- ◆ IATA Dangerous Goods Regulation(64th Edition).
- ◆ IMO International Maritime Dangerous Goods Code (40-20 Edition) .
- ◆ OSHA Hazard communication standard (29 CFR 1910).
- ◆ RID/ADR(2023 Edition).

_____Hazardous ☒ Non-hazard

Section 16 -Other Information

The information contained in this Safety data sheet is based on the present state of knowledge and current legislation.

This safety data sheet provider guidance on health. Safety and environmental specs of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The material safety data sheet is furnished to every manufacturer as a reference to secure the safe handling of chemical. Every manufacturer is requested to carry out appropriate actions for chemical handling as their own responsibility. The supplier makes no warrantee, either express or implied. Concerning of this products, user assumes all risks resulting from its use.

**** End of SDS ****