

BULLTRON LITHIUM BATTERIES

MSDS REPORT

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: Lithium Iron Phosphate LiFePO4 Traction Battery System

Model: BullTron Polar 12,8V 300Ah

EAN Code:

Item Code: LI300B200-12-P

Specification: 3840Wh, 300Ah, 12,8V

Weight: 25,0kg

Dimensions: 367mm x 189mm x 253mm (LxWxH)

Manufacturer: BullTron

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SECTION 2 – HAZARDS IDENTIFICATION

Classification of Danger: See section 14.

Primary Route(s) of Exposure: Eye, skin contact, ingestion

Health Hazard: The batteries are not hazardous when used according to the

instructions of manufacturer under normal conditions. In case of abuse, there's Hazard of rupture, fire, heat, leakage of internal components, which could cause casualty loss. Abuses including 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.

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SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Concentration (%)	CAS Number
Phosphoric acid, iron (2+), lithium (1:1:1)	30	15365-14-7
Graphite	15	7782-42-5
Phosphate(1-), hexafluoro-, lithium	15	21324-40-3
Aluminum	13	7429-90-5
Copper	14	7440-50-8
Polyethylene, ABS	12	7440-02-0
Other	1	N/A

Labeling according to EC directives. No symbol and Hazard phrase are required. Note: CAS number is Chemical Abstract Service Registry Number. N/A=Not apply

SECTION 4 – FIRST AID MEASURES

Eye contact Flush eyes with plenty of water for at 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 – FIRE FIGHTING MEASURES

Characteristics of HazardDusts at sufficient concentrations can form explosive mixtures

with air. Combustion generates toxic fumes.

Hazardous Combustion

Products

Carbon dioxide.

Fire-extinguishing Methods

and Extinguishing Media

For small fires, use water spray, dry chemical, carbon dioxide or

chemical foam.

Attention in Fireextinguishing Wear self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.



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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment, and emergency procedures

In case of rupture. Attention! Corrosive material. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Refer to protective

measures listed in Sections 7 and 8.

Environmental Precautions

Prevent product from contaminating soil and from entering sewers or

waterways.

Methods and materials for Containment

Stop the leak if safe to do so. Contain the spilled liquid with dry sand

or earth. Clean up spills immediately.

Methods and materials for cleaning up

Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water;

collect all contaminated wash water for proper disposal.

SECTION 7 – HANDLING AND STORAGE

Handling 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.

Store in a cool, dry, well-ventilated area away from incompatible **Storage**

substances. Store locked up. Keep out of the reach of children.

Other Precautions In case of rupture. Handle in accordance with good industrial hygiene

and safety practice. Avoid contact with skin, eyes or clothing. Use

personal protection equipment.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls Use adequate ventilation to keep airborne concentrations low. If used

> under conditions that generate particulates, the ACGIH TLV-TWA of 3mg/m3 respirable fraction (10mg/m3 total) should be observed.

Personal Protective Equipment

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Eye and Face Protection: None required for consumer use. If there is a Hazard of contact: Tight sealing safety goggles. Face protection

shield.

Skin and Body Protection: None required for consumer use. If there is a Hazard of contact: Wear protective gloves and protective clothing.

Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is

experienced, ventilation and evacuation may be required.



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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance: Prismatic

Color: Black

Odour: If leaking, smells of medical ether.

Change in condition

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.

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability Stable under recommended storage conditions.

Possibility of Hazardous ReactionsNone under normal processing.

Conditions to Avoid Exposure to air or moisture over prolonged periods.

Incompatible materials Acids, Oxidizing agents, Bases.

Hazardous Decomposition Products

Carbon oxides.

SECTION 11 – TOXICOLOGICAL INFORMATION

Irritation In the event of exposure to internal contents, vapour

fumes may be very irritating to the eyes and skin.

Sensitization Not Available.

Reproductive Toxicity Not Available.

Toxicologically Synergistic Materials Not Available.

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SECTION 12 – ECOLOGICAL INFORMATION

General note Do not allow undiluted product or large quantities of it

to reach ground water, water course or sewage system.

Anticipated behavior of a chemical product in environment/possible environmental impact/ ecotoxicity

Not Available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Treatment Recycle or dispose of in accordance with government, state & local

regulations.

Attention for Waste

Treatment

Deserted batteries shouldn't be treated as ordinary trash. Shouldn't be thrown into fire or placed in high temperature. Shouldn't be dissected, pierced, crushed or treated similarly. Best disposal

method is recycling.

SECTION 14 – TRANSPORT INFORMATION

UN number 3480

Proper shipping name Lithium ion batteries (limited to a maximum of 30% SoC)

Class or division 9

Label(s) / Placard Required Miscellaneous

Lithium batt



Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

ICAO / IATA Can be shipped by air in accordance with International Civil Aviation

Organization (ICAO), TI or International Air Transport Association (IATA), DGR Packing Instructions (PI) 965 Section IA appropriate of IATA DGR 60th

(2019 Edition) for transportation.

IMDG CODE Shipping may be done in accordance with the IMDG Code 2018 Edition

(Amdt 39-18).

DOT Other requirements for the US Department of Transportation (DOT)

Subchapter C, Hazardous Materials Regulations if shipped in compliance

with 49 CFR 173.185.

ADR/ ADN Transport Requirements for United Nations Economic Commission for

Europe (UNECE) ADR/ADN, Applicable as from 1 January 2019

Each battery of the type declared in this document is proved to meet the requirements of each applicable test in the UN Manual of Tests and Criteria, Part III, Section 38.3

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SECTION 15 – REGULATORY INFORMATION

- Dangerous Goods Regulations
- Recommendations on the Transport of Dangerous Goods-Model Regulations (20th revised edition)
- Recommendations on the Transport of Dangerous Goods-Manual of Tests and Criteria
- International Air Transport Association (IATA)
- International Maritime Dangerous Goods (IMDG Code 2018 Edition Amdt 39-18)
- Technical Instructions for the Safe Transport of Dangerous Goods
- Classification and code of dangerous goods (GB 6944-2012)
- 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
- Toxic Substance Control Act (TSCA)
- Code of Federal Regulations
- In accordance with all Federal, State and local laws

SECTION 16 – ADDITIONAL INFORMATION

Avoid any mechanical or electrical abuse of the Lithium Iron Phosphate battery. Use and Install the battery accordance with the instruction manual.

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist

END OF REPORT

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