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### SAFETY DATA SHEET

Product Code: LIVIP750

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#### SECTION 1

#### **PRODUCT IDENTIFICATION**

Product Name:Li-ion BatteryModel:BP2S2PDNominal Voltage:7.4V

**Typical Capacity:** 5000mAh, 37Wh

**Weight:** 259.4g

**Dimension:** 93.5mm x 72.2mm x 43.4mm (LxWxT)

#### (SECTION 2)

### **HAZARD IDENTIFICATION**

**Hazard Description:** Not dangerous with normal use. Do not dismantle, open or shred the battery ingredients contained

within or their ingredients products could be harmful.

**Primary Route(s) of Exposure:** Inhalation, Ingestion, Skin contact and Eye contact.

**Potential Health Effects:** Inhalation: Vapors or mists from a ruptured battery may cause respiratory irritation.

**Ingestion:** The battery ingredients contained within or their ingredients products can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract

**Skin:** Skin contact with contents of an open battery can cause severe irritation or

burns to the skin.

Eye: Eye contact with contents of an open battery can cause severe irritation or

burns to the eye.

#### **SECTION 3**

### **COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	Concentration or concentration ranges(%)	CAS Number
Lithium Cobalt Oxide	35 - 38	12190-79-3
Graphite	20 - 22	7782-42-5
Copper	9 - 10	7440-50-8
Aluminum	5 - 6	7429-90-5
Ethylene Carbonate	14 - 16	96-49-1
Polypropylene	5 - 6	9003-07-0
Carbonate, Methyl Ethyl	4 - 5	623-53-0
Phosphate(1-), Hexafluorolithium	5 - 6	21324-40-3

Note: CAS number is Chemical Abstract Service Registry Number. N/A=Not apply.

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#### (SECTION 4) FIRST AID MEASURES

Inhalation: Remove source of contamination or move victim to fresh air. Obtain medical advice.

Ingestion: Please rinse mouth thoroughly with water. Induce vomiting under the guidance of professional person-

age. Please seek medical treatment in time.

**Skin Contact:** Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get

medical aid.

**Eye Contact:** Irrigate with flowing water for 15 minutes. If irritation persists, consult a physician.

#### SECTION 5 FIRE FIGHTING MEASURES

**Characteristics of Hazard:** Toxic fumes, gases or vapors may evolve on burning.

**Hazardous Combustion** 

**Products:** 

Carbon monoxide, carbon dioxide, lithium oxide fumes and so on..

Fire Extinguishing Methods and

**Extinguishing Media:** 

Please use water, dry sand and other proper fire extinguishing media.

Attention in Fire-extinguishing: The firemen should put on antigas masks and full fire-fighting suits.

#### (SECTION 6) **ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, protective** equipment, and emergency

procedures:

Restrict access to area until completion of clean-up. Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8

**Environmental Precautions:** 

Prevent material 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.

#### HANDLING AND STORAGE SECTION 7

Handling: Don't handing the batteries in manner that allows terminals to short circuit Do not open, disassemble,

crush or burn battery.

Storage: If the battery is subject to storage for such a long term as more than 3 months, it is recommended to

recharge the battery periodically.

Storage temperature: 0-35 'C, 60±25%R. H.

Do not storage the battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.

Keep out of reach of children.

Do not expose the battery to heat or fire. Avoid storage in direct sunlight

Do not store together with oxidizing and acidic materials.

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#### (SECTION 8)

#### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls** No engineering controls are required for handling batteries that have not been damaged. Personal

protective equipments for damaged batteries should include chemical resistant gloves and safety

glasses

**Personal and Protective Equipment** 

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. 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.

### SECTION 9

#### PHYSICAL/CHEMICAL PROPERTIES

Form: Solid **Physical State:** 

> Colour: White **Odour:** Odourless

Change in condition: No data is available No data is available

pH, with indication of the concentration:

Melting point/freezing point:

**Boiling Point, initial boiling** 

point:

No data is available No data is available

**Flash Point: Upper/lower flammability** 

No data is available No data is available

or explosive limits:

Vapor Pressure:

No data is available No data is available

Vapor Density: (Air= 1) **Density/relative density:** 

No data is available

**Solubility in Water:** 

No data is available

n-octanol/water partition coefficient:

No data is available

**Auto-ignition temperature:** 

No data is available

**Decomposition temperature:** 

No data is available No data is available

**Odout threshold: Evaporation rate:** 

No data is available

Flammability (soil, gas)

No data is available

Viscosity

No data is available

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#### SECTION 10 STABILITY AND REACTIVITY

**Stability:** Stable under normal temperatures and pressures.

Conditions to Avoid: Heat above 70 C or Incinerate, Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose

over a long period to humid conditions.

**Hazardous Decomposition** 

**Products:** 

Reaction:

Toxic Fumes, and may form peroxides.

Possibility of Hazardous If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalis, halogenated

hydrocarbons.

#### (SECTION 11) TOXICOLOGICAL INFORMATION

**Irritation:** In the event of exposure to internal contents, vapor fumes may be very irritating to the eyes and skin.

Sensitization:No data is availableReproductive Toxicity:No data is availableToxicologically SynergisticNo data is available

Materials:

### 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 No data is available

Mobility in soil: No data is available

Persistence and Degradability: No data is available

#### SECTION 13 DISPOSAL CONSIDERATIONS

**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

This report applies to by sea, by air and by land;

The Li-ion Battery (model: BP2S2PD) tested according to the requirements of the UNITED NATIONS

"Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria" Part 111, subsection 38.3;

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The Li-ion Battery was protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit;

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking.

The package must be handled with care and that a flammability hazard exists if the package is damaged.

The Li-ion Battery can be shipped by air in according to Section II/Section IB of PACKING INSTRUCTION 965, or Section II of PACKING INSTRUCTION 966~967 of the 2021 IATA Dangerous Goods regulations 62nd Edition.

With regard to transport, the following regulations are cited and considered:

- The International Civil Aviation Organization (ICAO) Technical Instructions.
- The International Air transport Association (IAT A) Dangerous Goods Regulations.

UN number of lithium battery: UN3480 or UN3481;

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries contained in equipment or Lithium ion batteries packed with equipment;

UN Classification (Transport hazard class): Class 9 (PI965 Section IB) or N/A (PI965-967 Section II)

- The International Maritime Dangerous Goods (IMDG) Code

UN number of lithium battery: UN3480 or UN3481;

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries contained in equipment or Lithium ion batteries packed with equipment;

UN Classification (Transport hazard class): N/A

Marine pollutant(Y/N): N

The battery is not restricted according to IMO IMDG Code (inc Arndt 39-18).

Need to meet the Special Provision: International maritime dangerous goods code (IMDG) 188, 230, 310, 348, 360, 376, 377.

#### (SECTION 15)

#### **REGULATORY INFORMATION**

**Dangerous Goods Regulations** 

Recommendations on the Transport of Dangerous Goods Model Regulations

International Maritime Dangerous Goods

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)

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The Oil Pollution Act (OPA)

Superfund Amendments and Reauthorization Act TitleIII(302/311/312/313) (SARA)

Resource Conservation and Recovery Act (RCRA)

Safety Drinking Water Act (CWA)

California Proposition 65

Code of Federal Regulations (CFR)

EU Battery Directive (2006/66/EC, 2013/56/EU)

Regulation (EC) No. 1907 /2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

In accordance with all Federal, State and local laws.

### SECTION 16 OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we makes no waranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required. The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.

### **END OF SDS**