



MSDS

Report No.: BST13070396Y-IRR-4

Date: July. 29, 2016

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Material Safety Data Sheets

Section 1 - Product and Company Identification

Li-ion Battery

Product Identification: LI-ION BATTERY

Manufacturer or Supplier Name: SHENZHEN POWERCOM ELECTRONICS CO., LTD

Manufacturer or Supplier Address: BLDG B, HUAXINRUIMING. PARK, XINWEI VILLIADGE
DALANGLONGHUA. BAO'AN DIST. SHENZHEN CHINA

Model No. : BL-5C

Contact Person: Mr Zhang

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Signed for and on behalf of

Andy Zheng/Technical Director

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Dongguan BST Testing Co., Ltd.

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Section 2 – Compositon/Information on Ingredients

Li-ion Battery

Ingredient Name: LI-ION BATTERY

The difference between the single product and mixture: mixture

Chemical Name: LI-ION BATTERY

Constitutes:

Chemical Name	Chemical Formula	CAS No.	Content/%
Lithium Cobalt Oxide	LiCoO ₂	12190-79-3	30.46
Carbon	C	7440-44-0	15.96
Copper	Cu	7460-50-8	5.95
Aluminum	Al	7429-90-5	14.87
Polyvinylidene Fluoride	(C ₂ H ₂ F ₂) _n	24937-79-9	0.64
Nickel	Ni	7440-02-0	0.51
Carboxymethyl cellulose	CMC	9004-32-4	0.19
ABS Resins	C ₄₅ H ₅₁ N ₃ X ₂	9003-56-9	8.75
Tin	Sn	7440-31-5	0.54
Styrene-butadiene rubber	(C ₈ H ₈ .C ₄ H ₆) _x	9003-55-8	0.32
Electrolyte	--	--	14.67
Separator	--	--	7.14

Section 3 - Hazards Identification information

Li-ion Battery

Health Hazards Acute & Chronic: Acute: Irritation of Eyes, Skin Respirator G.I.Tract, Dizziness, Weakness, Nausea, and Headache.

Signs & Symptoms of Overexposure:

Eyes: irritation.

Skin: moderate irritation, defatting, dermatitis.

Inhalation: respiratory irritation, effects, dizziness, weakness, nausea, headache

Ingest: g.i.tract irritation, nausea, vomiting & diarrhea.

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Section 4 - First Aid Measures

Li-ion Battery

First Aid:

Eyes: Flush with plenty of water, Get medical attention.

Skin: Wash thoroughly with soap & water.

Inhalation: Remove to fresh air, Get medical attention.

Ingestion: Do not induce vomiting, Keep warm. Get medical attention.

The most important symptom and harm effect: Acid burn.

The protection to the first aid person: According to procedure to disposal.

Section 5 - Fire Fighting Measures

Li-ion Battery

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, msha/niosh (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable liquid and vapor.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Flash Point: 45deg C (113.00 deg F)

Autoignition Temperature: Not available.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: Not published.

Section 6 - Accidental Release Measures

Li-ion Battery

Spill Release Procedures:

Use Proper Personal Protection: Remove all ignition sources. Use suitable absorbent materials and recover for proper disposal.

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Section 7 - Handling and Storage

Li-ion Battery

Handling: Use spark-proof tools and explosion proof equipment. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage:

1. After cleaning the body and terminal of the Battery with pure water, coat it with some Vaseline to prevent malfunction.
2. Keep the Battery fully charged, and charge twice monthly.
3. Store the Battery in a dry and cool plate, away from the sun, rain, and heat.

Section 8 - Exposure Controls & Personal Protection

Li-ion Battery

Respiratory Protection:

Protective Gloves: Nitrile rubber.

Eye Protection: Chemical splash goggles

Other Protective Equipment: Impervious clothing & boots.

Work Hygienic Practices: Avoid contact with skin and eyes; do not breathe vapors/mist.

Section 9 - Physical & Chemical Properties

Li-ion Battery

Substance estate: mixture

Shape: solid

Color: N/A

Smell: thrill smell

PH value: N/A

Boiling point/ boiling point scope: N/A

Decomposition temperature: N/A

Fire point: N/A

Test method: N/A

Self-ignite temperature: Non-combustible

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Explosion limit: N/A

Vapor tension: N/A

Vapor density: N/A

Density: N/A

Solubility: N/A

Nominal voltage: 1100mAh, 3.7V, 4.07W

Section 10 - Stability & Reactivity Data

Li-ion Battery

Chemical Stability: Stable.

Conditions to Avoid: Incompatible materials, exposure to moist air or water.

Incompatibilities with Other Materials: Strong oxidizing agents, strong acids, alkali metals, metallic salts.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

Li-ion Battery

Toxicological Information:

N/P

Section 12 - Ecological Information

Li-ion Battery

Ecological Information:

N/P

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Section 13 - Disposal Considerations

Li-ion Battery

Waste Disposal Methods:

Dispose Of Collected Material In Accordance With Local, State And Federal Regs.

Section 14 - MSDS Transport Information

Li-ion Battery

All Li-ion Battery with the necessary testing requirements under the UN 38.3 Manual of Tests and Criteria as referenced in the following transportation regulations.

1. UN recommendations on the Transport of Dangerous Goods Model Regulations.
2. U.S. Department of Transportation of Dangerous Goods Model Regulations.
3. International Civil Aviation Organization (ICAO) Technical Instructions.
4. International Maritime Dangerous Goods (IMDG) code.
5. IATA DGR 57th Edition [2016].
6. Packing instruction 965-967 Section II of IATA DGR 57TH Edition

Section 15 - Regulatory Information

Li-ion Battery

LAW Information:

- 《Dangerous Goods Regulation》
- 《Recommendations on the Transport Of Dangerous Goods Model Regulations》
- 《International Maritime Dangerous Goods》
- 《Technical Instrctions for the Safe Transport of Dangerous Goods》
- 《Classification and code of dangerous goods》

OSHA Hazard Communication Standard Status.

Toxic Substances Control Act (TSCA) Status.

SARA Title III.

RCRA.

U.S. Federal Regulations.

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European/International Regulations.

In accordance with all federal, state and local laws.

Section 16 - Other Information

Li-ion Battery

Other Information: the above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the result of its use, this information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

BST confirmed the ninth item, the above content as reference information only. Please the user according to the demand to judge it usability. BST has no any responsibility.

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