

# Safety Data Sheet

# SDS

## Lithium-ion Battery

### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

**Product name :** Lithium-ion Battery BL7800 36V 5.5Ah 198Wh  
BL7800A 36V 8.25Ah 297Wh  
BL7800B 36V 5.5Ah 198Wh  
BL7800C 36V 8.25Ah 297Wh

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**SDS Numer** BMZ 201903220852SV5EO **SDS date :** 2019-3-22

### SECTION 2 HAZARDS IDENTIFICATION

**Hazards Identification :** Class 9, miscellaneous. The battery has passed the test items of UN model Regulations, Manual of Test and Criteria Section UN 38.3.

#### Emergency overview:

Caution: Avoid contact and inhalation the electrolyte contained inside the battery

### SECTION 3 INFORMATION ON INGREDIENTS

**Product name:** Lithium-ion Battery Li58 5.2A 50.4V 5.2Ah 262Wh

Ingredient	Concentration	CAS NO.
Lithium Nickel Cobalt	32	182442-95-1
Manganese Oxides		
Graphite	17	7782-42-5
Ethylen Carbonate	3	623-53-0
Dimetyle Carbonate	7	616-38-6
Lithium	2	21324-40-3
Aluminium	5	7429-90-5
Copper	14	7440-50-8
Copper	9	7439-89-6

### SECTION 4 FIRST-AID MEASURE

**Skin Exposure:** If the internal battery materials of an opened cell come into contact with the skin, immediately flush with plenty of water.

**Eye Exposure:** In case of the internal battery materials in contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Inhalation Exposure:** If inhaled the internal materials of battery, remove immediately to fresh air and seek medical attention

**Oral Exposure:** If swallowed the internal materials of battery, do not induce vomiting, seek immediate medical attention.

### SECTION 5 FIRE FIGHTING MEASURES

#### Extinguishing media

**Suitable:** Dry chemical, Sandy soil, Carbon dioxide or appropriate foam.

#### Firfighting:

**Protective Equipment:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Specific hazards:** Emit toxic fumes under fire conditions.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

#### Procedure of personal precaution:

If batteries show signs of leaking, avoid skin or eye contact with the material leaking from the battery. Use chemical resistant rubber gloves and non-flammable absorbent materials for clean up. Mix with inert material (e.g. dry sand, vermiculite) and transfer to sealed container for disposal.

### SECTION 7 HANDLING AND STORAGE

#### Handling:

Keep away from ignition sources, heat and flame. Such batteries must be packed in inner packages in such a manner as to effectively prevent short circuits and to prevent movement which could lead

to short circuits. Avoid mechanical or electrical abuse. More than a momentary short circuit will generally reduce the battery service life. Avoid reversing battery polarity within the battery assembly. In case of a battery unintentionally be crushed, rubber gloves must be used to handle all battery components. Avoid contact with eyes, skin. Avoid inhalation. No smoking at working site. Materials to avoid: Strong oxidizing agents, corrosives.

#### **SECTION 8 EXPOSURE CONTROL /PPE**

**Engineering Control:** Use ventilation equipment if available. Safety shower and eye bath.

**Personal Protective Equipment:**

**Respiratory system :** Not necessary under conditions of normal use.

**Eyes:** Not necessary under conditions of normal use.

**Clothing:** Wear appropriate protective clothing.

**Hand:** Safety gloves.

#### **SECTION 9 PHYSICAL/CHEMICAL PROPERTIES**

**Appearance:** Black Plastic Enclosure

**Odor :** Odorless

**Melting Point/C° :** >300C°

**Solubility :** Partial soluble in water

#### **SECTION 10 STABILITY AND REACTIVITY**

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

**Conditionals to avoid:**

Avoid exposure to heat and open flame. Avoid mechanical or electrical abuse. Prevent short circuits. Prevent movement which could lead to short circuits.

Materials to avoid: **Strong oxidizing agents Corrosives.**

**Hazardous Polymerization:** Will not occur

**Hazardous Decomposition Products:** Metal oxides, Co, CO<sub>2</sub>

#### **SECTION 11 TOXICOLOGICAL INFORMATION**

**Toxicity data:** Not available

**Irritation data: :** The internal battery materials may cause irritation to eyes and skin.

#### **SECTION 12 ECOLOGICAL INFORMATION**

**NO data available**

#### **SECTION 13 DISPOSAL CONSIDERATION**

**Appropriate Method of Disposal of Substance:**

Lithium batteries are best disposed of as a non hazardous waste when fully or mostly discharged. Contact a licensed professional waste disposal service to dispose of large quantities materials.

#### **SECTION 14 TRANSPORT INFORMATION**

**IATA--** Proper shipping name: Lithium ion batteries UN number: UN3480 Hazard Class: 9  
The product shall meet the General Requirements and section IA of packaging Instruction 965(IATA DGR Version 2018)

**IMO--** Proper shipping name: Lithium ion batteries. UN number: UN3480 Hazard Class: 9  
Ems No. : F-A S-I

#### **SECTION 15 REGULATORY INFORMATION**

**ICAO:**

1. Unless be exempted according to ICAO TI, the lithium ion cell/batteries (UN 3480, PI 965) and lithium metal cell/batteries (UN 3090, PI 968 ) are forbidden for carriage on passenger aircraft.
2. Unless be approved according to ICAO TI, Lithium ion cells / batteries (UN 3480, PI 965 ) must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity.
3. A shipper is not permitted to offer for transport more than one (1) package prepared according to Section II of PI 965 and PI 968 may be placed into an overpack.
4. Packages prepared according to Section II of PI 965 and PI 968 must be offered to the operator separately from other cargo and must not be loaded into a unit load device (ULD) before being offered to the operator.

#### **Section 16 OTHER INFORMATION**

Date 2019-3-22 Dept : Quality Dept of BMZ Company Limited