

SECTION 1. CHEMICAL PRODUCT AND COMPANY NAME**Lithium-Ion Rechargeable Battery Pack
BL1860B****Safety Data Sheet**Complies with the OSHA Hazard
Communication Standard :
29 CFR 1910 1200Makita U.S.A., Inc.
14930-C Northam Street
La Mirada, CA 90638

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Date Revised: 01/06/2016

EMERGENCY CONTACT INFORMATION**Telephone Number for Information:** MAKITA: 1-510-657-9881**Emergency Response**For Chemical Emergency
Spills, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada 1-800-424-9300**SECTION 2. HAZARD IDENTIFICATION****Class Name:** Not applicable for regulated class**Hazard:** It may cause heat generation or electrolyte leakage if battery terminals contact with other metals. Electrolyte is flammable. In case of electrolyte leakage, move the battery from fire immediately.**Toxicity:** Vapor generated from burning batteries, may make eyes, skin and throat irritate.**SECTION 3. COMPOSITION, INFORMATION OR INGREDIENTS****IMPORTANT NOTE:**

The battery pack should not be opened or burned since the following ingredients contained within the cells that could be harmful under some circumstance if exposed or misused.

The cells contain neither metallic lithium nor lithium alloy.

Cathode: Lithium Nickel Cobalt Oxides (active material)
Polyvinylidene Fluoride (binder)
Graphite (conductive material)**Anode:** Graphite (active material)
Styrene-butadiene rubber / Carboxymethyl cellulose sodium salt (binder)**Electrolyte:** Organic Solvent (non-aqueous liquid)
Lithium Salt**Others:** Heavy metals such as Mercury, Cadmium, Lead, and Chromium are not used in the cell.**Enclosure:** Plastic (PC)**UN Number:** UN3480 (Class 9)

CONTINUED: SECTION 3. COMPOSITION, INFORMATION OR INGREDIENTS

UN Packing Group: II

Rated Capacity: 6.0 Ah

Watt-hour rating: 108 Wh for battery pack

SECTION 4. FIRST AID MEASURE

The product contains organic electrolyte. In case of electrolyte leakage from the battery, actions described below are required.

Eye Contact: Flush the eyes with plenty of clean water for at least 15 minutes immediately, without rubbing, and call a doctor. If appropriate procedures are not taken; this may cause an eye irritation.

Skin Contact: Wash the contact areas off immediately with plenty of water and soap. If appropriate procedures are not taken, this may cause sores on the skin.

Inhalation: Remove to fresh air immediately, and call a doctor.

SECTION 5. FIRE FIGHTING MEASURES

- Use specified extinguishers (gas, foam, powder) and extinguishing system under the Fire Defense Law.
- Since corrosive gas may be produced at the time of fire extinguishing, use an air inhalator when danger is predicted.
- Use a large amount of water as a supportive measure in order to get cooling effect if needed. (Indoor/outdoor fire hydrant)
- Carry away flammable materials immediately in case of fire.
- Move batteries to a safer place immediately in case of fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Wipe off with dry cloth
- Keep away from fire
- Wear safety goggles, safety gloves as needed

SECTION 7. HANDLING AND STORAGE

Storage: Store within the recommended limit of -30°C to 45°C (-22°F to 113°F), well-ventilated area. Do not expose to high temperature (60°C/140°F). Since short circuit can cause burn hazard or safety vent to open, do not store with metal jewelry, metal covered tables, or metal belt.

Handling: Do not disassemble, remodel, or solder. Do not short + and - terminals with a metal.
Do not open the battery pack.

Charging: Charge within the limits of 0°C to 40°C (32°F to 104°F) temperature. Charge with specified charger designed for this battery pack

Discharging: Discharge within the limits of -20°C to 60°C (-4 °F to 140°F) temperature.

Disposal: Dispose in accordance with applicable federal, state and local regulations.

Caution: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.
DO NOT INCINERATE. DO NOT DISASSEMBLE. DO NOT SHORT TERMINALS.
DO NOT EXPOSE TO HIGH TEMP (60°C/140°F).

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

(In case electrolyte is leaked from battery)

Acceptable Concentration: Not specified in ACGIH.

Facilities: Provide appropriate ventilation such as local ventilation system in the storage.

Protective Clothing: Gas mask for organic gases, safety goggles, safety gloves.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Lithium-ion rechargeable cells are set in a resin case.

Average Operating Voltage : 18V

SECTION 10. STABILITY AND REACTIVITY

External short-circuit, deformation by crush, high temperature (over 100°C) exposure of the battery may cause generation of heat and ignition.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No information as a battery

Local Effects: No information as a battery

SECTION 12. ECOLOGICAL INFORMATION

When exhausted battery is buried in the ground, corrosion may be caused on the outer plastic case of battery and electrolyte may be leaked. There is no information on environmental influence.

SECTION 13. DISPOSAL CONSIDERATIONS

When battery is disposed, isolate positive (+) and negative (-) terminals of the battery to avoid those terminals from touching each other. Batteries may be short-circuited when piled up or mixed with the other batteries. Dispose in accordance with applicable federal, state and local regulations.

SECTION 14. TRANSPORT INFORMATION

- When a number of batteries are transported by ship, vehicle and railroad avoid high temperature and dew condensation.
- Avoid transportation which may cause damage of package.
- Lithium-ion batteries, rated more than 100Wh, are subject to dangerous goods regulation for the purpose of transportation by the U.S. Department of Transportation (DOT), the International Civil Aviation Organization (ICAO), the International Air Transport Association (IATA) or the International Maritime Dangerous Goods regulations (IMDG). With regard to air transport, the International Civil Aviation Organization (ICAO) Packing Instruction 965 Section I complies with the Recommendation as is; further, the International Air Transport Association (IATA) adopts ICAO Packing Instruction 965 Section I. In addition, the regulations of the US Department of Transportation for land, sea and air transportation are based on the UN Recommendations.

CONTINUED: SECTION 14. TRANSPORT INFORMATION

- The shipment complies with the Packing Instruction 965 Section 1A under IATA.
Each cell and battery is of the type proven to meet the requirements of each test in the UN Manual of Tests and Criteria, Part III, subsection 38.3.
The completed packages for the cells or batteries meet the Packing Group II performance standards.

SECTION 15. REGULATORY INFORMATION

- IMDG Code: International Maritime Dangerous Goods (IMDG) Code 2014 Edition
- ICAO TI: International Civil Aviation Organization (ICAO) Technical Instructions for the Safe Transport of Dangerous Goods by Air 2015-2016 Edition
- IATA DGR: International Air Transport Association (IATA) Dangerous Goods Regulations 56th Edition

SECTION 16. OTHER INFORMATION

The information contained within is provided for your information only. The information and recommendations set forth herein are made in good faith and are believed to be accurate as of the date of preparation. However, Makita U.S.A, Inc. MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THIS INFORMATION AND DISCLAIMS ALL LIABILITY FROM RELIANCE ON IT.