SECTION 1. CHEMICIAL PRODUCT AND COMPANY NAME

Lithium-Ion Rechargeable Battery Pack BL1860B

Safety Data Sheet

Complies with the OSHA Hazard Communication Standard : 29 CFR 1910 1200

| Makita U.S.A., Inc. | Prepared By: | Stan Rodrigues | |
|------------------------|---------------|----------------|--|
| 14930-C Northam Street | | | |
| La Mirada, CA 90638 | Date Revised: | 04/21/2020 | |

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:

The product is a Lithium ion battery and is therefore classified as an article and is not hazardous when used according to the recommendations of the manufacturer. The hazard is associated with the contents of the cell or battery. Under recommended use conditions, the electrode materials and liquid electrolyte are non-reactive.

SECTION 3. COMPOSITION, INFORMATION OR INGREDIENTS:

IMPORTANT NOTE:

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

The cell contains neither metallic lithium nor lithium alloy.

| Common chemical name / General name | CAS number | Concentration /Concentration range |
|-------------------------------------|------------|------------------------------------|
| Lithium Nickel Cobalt Oxides | 12031-65-1 | 38% |
| Graphite | 7782-42-5 | 18% |
| Ethylene Carbonate | 96-49-1 | 3% |
| Dimethyl Carbonate | 616-38-6 | 7% |
| Lithium hexafluorophosphate | 21324-40-3 | 3% |
| Aluminum | 7429-90-5 | 4% |
| Copper | 7440-50-8 | 12% |
| Iron | 7439-89-6 | 15% |

CONTINUED: SECTION 3. COMPOSITION, INFORMATION OR INGREDIENTS:

UN number: UN3480

Watt-hour rating: 11.3 Wh / 10.8 Wh (Nominal / Rated)

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 -20°C to 45°C (-4°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.

Charging: Refer to the charger instruction manual.

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.

Fire, Explosion, and Severe Burn Hazard. Do not Crush, Disassemble,

Caution: Heat Above 100°C/212°F, or Incinerate.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

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 goggle, safety glove.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Lithium Ion Rechargeable Cells.

Average Operating Voltage: 3.60 V

SECTION 10. STABILITY AND REACTIVITY:

External short-circuit, deformation by crush, high temperature (over 100°C) exposure of a battery 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 case of battery and electrolyte may be oozed. 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 in disorder. Dispose in accordance with applicable federal, state and local regulations.

SECTION 14. TRANSPORT INFORMATION:

- The cells in these batteries have been tested and meet the requirements for the UN Manual of Tests and Criteria, Part III, subsection 38.3
- 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 are not subject to dangerous goods regulation for the purpose of transportation by the International Maritime Dangerous Goods regulations (IMDG). For Lithium-ion batteries, the Watt-hour rating is no more than 20Wh /cell and 100Wh/battery pack can be treated as "non-dangerous goods" by the United Nations Recommendations on the Transport of Dangerous Goods/Special Provision 188, provided that the products are prevented from being short-circuited with each other and are packaged in an appropriate condition which satisfies Packing Group II performance level.

CONTINUED: SECTION 14. TRANSPORT INFORMATION:

IATA (International Air Transport Association): Dangerous Goods Regulation
 Packing Instruction 965 (Lithium ion or lithium polymer cells and batteries without electronic equipment) went into effect April 1,
 2016: Lithium ion cells and batteries must be offered for transport at a state of charge not exceeding 30 per cent of their rated capacity.
 UN 3480, PI 965, Section IA and IB and II will be restricted to carriage on cargo aircraft. All packages must bear the Cargo Aircraft Only label in addition to the other marks and labels required by the Regulations.

• US Hazardous Materials Regulations 49 CFR (Code of Federal Regulations) Sections 173-185 Lithium batteries and cells.

Section II requirements apply to lithium-ion cells with a Watt-hour rating not exceeding 20 Wh and lithium-ion batteries with a Watt-hour rating not exceeding 100 Wh packed in quantities that within the allowance permitted in Section II, Table 965-11.

| TABLE 965-II | | | | | | |
|---|--|--|---|--|--|--|
| Contents | Lithium-ion cells and/or batteries with a Watt-hour rating of 2.7 Wh or less | Lithium-ion cells with a Watthour rating of more than 2.7Wh but not more than 20Wh | Lithium-ion batteries with a Watt-hour rating of more than 2.7Wh but not more than 100Wh | | | |
| Maximum number of cells / batteries per package | No limit | 8 cells | 2 Batteries | | | |
| Maximum net quantity per package | 2.5 kg | N/A | N/A | | | |

Lithium-ion cells and batteries meeting the requirements in this section are not subject to other additional requirements of these Regulations except for:

- 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;
 - cells and batteries must be manufactured under a quality management program;
 - for batteries, The Watt-hour rating must be marked on the outside of the battery case;
 - Each package must be capable of withstanding a 1.2m drop test in any orientation without:
 - damage to cells or batteries contained therein;
 - shifting of the contents so as to allow battery to battery (or cell to cell) contact;
 - release of contents.
- Each package must be marked with the lithium battery mark and the cargo aircraft only Label.
- A shipper is not permitted to offer for transport more than one package prepared according to Section II in any single consignment.

Section IB requirements apply to lithium-ion cells with a Watt-hour rating not exceeding 20 Wh and lithium-ion batteries with a Watt-hour rating not exceeding 100 Wh packed in quantities that exceed the allowance permitted in Section II, Table 965-II.

Quantities of lithium-ion cells or batteries that exceed the allowance permitted in Section II, Table 965-II must be assigned to Class 9 and are subject to all of the applicable provisions of Regulation.

Lithium batteries packed without equipment are classified under (UN3480), IATA Dangerous Goods Regulations packing instruction 965 is applied.

Lithium batteries packed with equipment are classified under (UN3481), IATA Dangerous Goods Regulations packing instruction 966 is applied.

Lithium batteries installed in equipment are classified under (UN3481), IATA Dangerous Goods Regulations packing instruction 967 is applied.

SECTION 15. REGULATORY INFORMATION:

IMDG Code: International Maritime Dangerous Goods (IMDG) Code 2018 Edition

ICAO TI: International Civil Aviation Organization (ICAO) Technical Instructions for the Safe Transport of Dangerous Goods by Air 2019-2020 Edition

IATA DGR: International Air Transport Association (IATA) Dangerous Goods Regulations 60th 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, Tohoku Murata Manufacturing MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THIS INFORMATION AND DISCLAIMS ALL LIABILITY FROM RELIANCE ON IT.