SECTION 1. CHEMICAL PRODUCT AND COMPANY NAME

Lithium-Ion Rechargeable Battery Pack
BL4040

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

Makita U.S.A., Inc.
14930-C Northam Street
La Mirada, CA 90638

Prepared By: Stan Rodrigues
Date Revised: 02/14/2022

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 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.

<table>
<thead>
<tr>
<th>Common Chemical Name / General Name</th>
<th>CAS Number</th>
<th>Concentration / Concentration Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium Nickel Cobalt Oxides</td>
<td>113066-89-0</td>
<td>38%</td>
</tr>
<tr>
<td>Graphite</td>
<td>7782-42-5</td>
<td>18%</td>
</tr>
<tr>
<td>Ethylene Carbonate</td>
<td>96-49-1</td>
<td>3%</td>
</tr>
<tr>
<td>Dimethyl Carbonate</td>
<td>616-38-6</td>
<td>7%</td>
</tr>
<tr>
<td>Lithium hexafluorophosphate</td>
<td>21324-40-3</td>
<td>3%</td>
</tr>
<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
<td>4%</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>12%</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>15%</td>
</tr>
</tbody>
</table>
ENCLOSURE: Plastic (PC)
UN number (Class) UN3480 (Class 9)
UN Packing Group II
Watt-hour rating 144Wh 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 (50°C/122°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: Charge within the limits of -10°C to 40°C (50°F to 104°F) temperature.
Charge with specified charger designed for this battery pack.
Discharging: Discharge within the limits of -20°C to 50°C (-4°F to 122°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 (50°C/122°F).

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 are set in a resin case.
Average Operating Voltage: 36.0 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 leak out. 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:

• 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, the Watt-hour rating is 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.

• 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.
• Each cell and battery are 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.
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:

IATA DGR: International Air Transport Association (IATA) Dangerous Goods Regulations 62nd 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.