SECTION 1. CHEMICIAL PRODUCT AND COMPANY NAME

Safety Data Sheet

Lithium-Ion Rechargeable Battery Pack
BL1055B

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

Makita U.S.A., Inc.
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La Mirada, CA 90638

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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

Potential Health Effects

Primary Routes of Entry

Skin contact, Skin absorption, Eye contact, Inhalation, and Ingestion: No

Symptoms of Exposure

Skin contact: No effect under routine handling and use.

Skin absorption: No effect under routine handling and use.

Eye contact: No effect under routine handling and use.

Inhalation: No effect under routine handling and use.

Eye Contact

No effect under routine handling and use.

Inhalation

No effect under routine handling and use.

Section 3. Ingredients

Battery Cell

HAZARDOUS INGREDIENTS	%	CAS NUMBER
Cobalt compound	4-50	1307-96-6
Styrene-Butadiene-Rubber	<1	27288-99-9
Aluminum Foil	2-10	7429-90-5
Polyvinylidene Fluoride (PVDF)	<5	24937-79-9
Copper Foil	2-10	7440-50-8
Carbon	10-30	7440-44-0
Electrolyte (Ethylene carbonate)	10-20	96-49-1
Lithium hexafluorophosphate	<5	21324-40-3
Stainless steel, Nickel and inert materials	Remainder	N/A

Circuit Mode

HAZARDOUS INGREDIENTS	%	CAS NUMBER
Lead	0.001	7439-92-1
Mercury	0	7439-97-6
Chromium	0	7440-47-3
Cadmium	0	7440-43-9
Plastic case and Si2O	0	N/A

Plastic Parts and Paints

HAZARDOUS INGREDIENTS	%	CAS NUMBER
Lead	<0.1	7439-92-1
Nickle	<0.01	7440-02-0
CFCs	0	75-69-4
Polychlorinated Biphenyls	0	1336-36-3

Section 4. First Aid Measures

Eye contact: Not a health hazard

Skin Contact: Not a health hazard

Inhalation: Not a health hazard

Ingestion: If swallowed, seek medical attention immediately.

If exposure to internal materials within cell(pack) due to damaged outer casing, the Following actions are recommended.

Inhalation: Leave area immediately and seek medical attention.

Eye Contact: Rinse eyes with water for 15 minutes and seek medical attention.

Skin Contact: Wash area thoroughly with soap and water and seek medical attention.

Ingestion: Drink milk/water and induce vomiting; seek medical attention.

Section 5. Fire Fighting Measures

5.1 GENERAL HAZARD

Cell is not flammable but internal organic material will burn if the cell is incinerated. Combustion products include, but are not limited to hydrogen fluoride, carbon monoxide and carbon dioxide.

5.2 EXTINGUSHING MEDIA

Use extinguishing media suitable for the materials that are burning.

5.3 SPECIAL FIREFIGHTING INSTRUCTIONS

If possible, remove cell(s) from firefighting area. If heated above 125°C, cell(s) can explode/vent.

5.4 FIREFIGHTING EQUIPMENT

Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.

Section 6. Accidental Release Measures

6.1 ON LAND

Place material into suitable containers and call local fire/police department.

6.2 IN WATER

If possible, remove from water and call local fire/police department.

Section 7. Handling and Storage

7.1 HANDLING

No special protective clothing required for handling individual cells.

7.2 STORAGE

Store in a cool, dry place.

Section 8. Exposure Controls/Personal protection

8.1 ENGINEERING CONTROLS

Keep away from heat and open flame. Store in a cool dry place.

8.2 PERSONAL PROTECTION

Respirator: Not required during normal operations. SCBA required in the event of a fire.

Eye/face protection: Not required beyond safety practices of employer.

Gloves: Not required for handling of cells.

Foot protection: Steel toed shoes recommended for large container handling.

Section 9. Physical and Chemical Properties

Physical State： Solid	Boiling point：N/A
Odor：N/A	Solubility in water：Insoluble
PH：N/A	Specific gravity：N/A
Vapor pressure：N/A	Density：N/A
Vapor density：N/A	Flash Point：N/A

Section 10. Stability and Reactivity

10.1 REACTIVITY

None

10.2 INCOMPATIBILITIES

None during normal operation. Avoid exposure to heat, open flame, and corrosives.

10.3 HAZARDOUS DECOMPOSITION PRODUCTS

None during normal operating conditions. If cells are opened, hydrogen fluoride and carbon monoxide may be

released.

10.4 CONDITIONS TO AVOID

Avoid exposure to heat and open flame. Do not puncture, crush or incinerate.

Section 11. Toxicological Information

This product does not elicit toxicological properties during routine handling and use.

Sensitization: No
Teratogenicity: No
Reproductive toxicity: No
Acute toxicity: No

This product does not contain any kinds of the following substances and halogen-type flame retardants including Chlorine and Bromide type harmful flame retardants which are listed in Appendix of TCO documents and relevant international ECO requirements:

Polybrominated Biphenyls (PBB)
Polybrominated Diphenylethers (PBDE)
Polychlorinated Biphenyls (PCBs)
Polychlorinated Terphenyls (PCTs)
Polychlorinated Naphthalene (PCN)
Chlorinated Paraffins(C10-C13)
Chlorofluorocarbons (CFCs)
Polyvinyl Chloride (PVC)
Carbon Tetrachloride

None of the following substances will be exposed, leaked, or emitted during transportation, storage or any operation and any temperature condition:

Chlorinated Fluor hydrocarbon (FCKW)
Acrylonitrile
Sterol
Phenol
Benzol
Mercury of greater than 0.0001 Wt% for alkaline battery
Mercury of greater than 0.0005 Wt% for other battery
Lithium content of greater than 0.5g/battery cell
Cadmium, lead, and other harmful heavy metal

And will comply with the regulation of 49 CFR (DOT regulation), International Air Transport Association (IATA), and Deuche Forschung gemeinschaft (DFG) regarding concentrations of emitted substances.

This product does not contain mercury and cadmium.

Mercury content: N/A

Cadmium content: N/A

If the cells are opened through misuse or damage, discard immediately. Internal components of cell are irritants and sensitizers.

Section 12. Ecological Information

Some materials within the cell are bio accumulative. Under normal conditions, these materials are contained and pose no risk to persons or the surrounding environment.

Section 13. Disposal Considerations

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

Section 14. Transport Information

- The International Civil Aviation Organization (ICAO) Technical Instructions (2019-2020). - The International Air Transport Association (IATA) Dangerous Goods Regulations (62nd Edition, 2021). Packing instruction 965 Section IA、IB or II for Lithium-Ion battery. - The International Maritime Dangerous Goods (IMDG) Code, 2018 Edition (Incorporating Amendment 39-18） with special provision 188 & 230.
- US Hazardous Materials Regulations 49 CFR (Code of Federal Regulations) Sections 173185 Lithium batteries and cells.
- The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria 38.3 Lithium batteries, ST-SG-AC10-11-Rev6-Amend1 (UN3480).
- If package is damaged, do not load or transport.

Section 15. Regulatory Information

OSHA hazard communication standard (29 CFR 1910.1200)

_____Hazardous __V__ Non-hazardous

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 revised. 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.