

Declaration

BARTEC GmbH · Max-Eyth-Straße 16 · 97980 Bad Mergentheim · Germany

BARTEC

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Herewith we, BARTEC GmbH, declare

that we use type no. B7-A2Z0-0034 (customer replaceable) battery pack for Lumen X4 series type numbers B7-A2P4-2xxxx/xxxxxxxx.

The battery pack includes Lithium Polymere battery cells.

Battery pack is manufactured by Hitachi Maxell, Ltd. Energy Div.

Battery packs related to product:

Lumen X4 series (type no.'s B7-A2P4-2xxxx/xxxxxxxx).

Type number:	B7-A2Z0-0034
SAP:	392120
	(Battery for ATEX, IECEx Zone 2 and CSA Class I Division 2 certified Lumen X4 series)
Technical data:	Lithium Polymere Battery 3.7 V / 3900 mAh / 14.43 Wh
Weight:	approx. 0.095 kg
Dimension:	66 x 65 x 13 mm
UN 38.3 Test Report:	Passed
Proper Shipping Name:	Lithium Ion Batteries
Class:	9
UN Classification 3480:	Shipping of Lithium ion batteries (limited to a maximum of 30% SoC) Shipping of single batteries without equipment.
UN Classification 3481:	Shipping of Lithium ion batteries: "packed with equipment" or "contained in equipment"

BARTEC GmbH

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97980 Bad Mergentheim

District court: Ulm HRB 723429
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VAT No.: DE 262 57 03 04

Bank details
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Management Board
Dr. Martin Scheffter (CEO)
Gerhard Bickmann (CFO)
Dr. Jörg Dalhöfer (COO)
Xavier Hamer (CCO)

Declaration

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Related to this declaration is following documentation:

- Hitachi Maxell, Ltd. PRODUCT SAFETY DATA SHEET
File No. LBK02501ST / Issued date: Nov 2, 2015

Bad Mergentheim, May, 24th 2018

BARTEC GmbH

i. V.



Benedikt Eckert

Product Line Manager Enterprise Mobility

Type number:

- B7-A2Z0-0034

Hitachi Maxell, Ltd.

PRODUCT SAFETY DATA SHEET

File No. LBK02501ST / Issued date: Nov 2, 2015

Product Safety Data Sheet

Maxell lithium ion cells are exempt articles and are not subject to the U.S Department of Labor OSHA Hazard Communication Standard (HCS) requirement. This sheet is provided as technical information only. The information and recommendations set forth are made in good faith and are believed to be accurate as of the date of preparation.

Maxell makes no warranty as to their accuracy, completeness or otherwise, expressed or implied.

Section 1 - Product and Company Identification

Product Name Lithium ion cells (HR,AHR ;No Si)	TEL: (+81)-(0)75-956-4161
Manufacturer's Name Hitachi Maxell, Ltd. Energy Div.	FAX: (+81)-(0)75-956-4163
Address 1 ,Koizumi, Oyamazaki, Otokuni, Kyoto, 618-8525, Japan	

Section 2 – Composition / Information on Ingredients

Components	CAS#	Content (wt%)
Lithium cobalt dioxide (LiCoO ₂) + Lithium Nickel Cobalt Complex Dioxide	12190-79-3, 193214-24-3	less than 41wt% (less than 5wt% as Ni oxide)
Electrolyte (-)	21324-40-3, 96-49-1 and others	less than 16wt%
Graphite (C)	7782-42-5	less than 20wt%
Aluminum (Al)	7429-90-5	less than 22wt%
Copper, Nickel metal and inert materials	7440-50-8 and others	Remainder
Lead (Pb)*	7439-92-1	less than 0.004wt%(40ppm)
Mercury (Hg)*	7439-97-6	less than 0.0005wt%(5ppm)
Cadmium (Cd) *	7440-43-9	less than 0.0020wt%(20ppm)

* Banned or restricted material.

Section 3 – Hazards Identification Including Emergency Overview

A lithium ion cell is normally stable under appropriate handling and storage conditions.

If a lithium ion cell generates abnormal heat, keep away from the cell to avoid inhaling internal materials. Chemicals utilized in lithium ion cells do have some toxicity and inhalation may cause irritation.

Section 4 - First Aid Measures

In case of contact with released electrolyte, immediately flush eyes or skin with plenty of water for at least 15 minutes, and remove contaminated clothes and shoes. To avoid inhaling internal materials, leave the area immediately. If irritation persists, consult a physician immediately.

Section 5 - Fire Fighting Measures

Extinguishing media: Plenty of water, water fog spray, dry chemical powder or carbon dioxide

Flammable limits: N/A

Section 6 - Accidental Release Measures

Steps to be taken in case material is released or spilled: Leave the contaminated area. In case of contact with electrolyte, wash out electrolyte with plenty of water for at least 15 minutes. If irritation persists, consult a physician immediately.

After cooling, remove spilled electrolyte and batteries with absorbent and avoid making contact with the electrolyte.

Section 7 - Handling and Storage

Handling:

The risk of heat, fire, explosion:

- Do not dip or wet the cell or battery in water.
- Do not put the cell or battery into a fire or heat it. Do not solder the cell directly. Do not use or leave the cell or battery in a place near fire or heaters.
- Do not disassemble. Do not apply heavy impact to the cell or battery.
- Do not connect the cell or battery reversed in positive (+) and negative (-) terminals in the charger or equipment.
- Do not use any battery charger not specified by the manufacturer and be sure to follow the charge conditions specified by the manufacturer.
- Do not connect the battery directly to an electric outlet or cigarette socket in a car.

Storage:

- Store in a cool place (preferably below 30°C/86°F) but prevent condensation on cells or batteries.
- Charge the battery every 6 months to the amount specified by the manufacturer, even if the battery is not used.

Section 8 - Exposure Controls, Personal Protection

Respiratory protection: Not necessary under normal use.

Hand protection: Not necessary under normal use.

Eye protection: Not necessary under normal use.

Skin protection: Not necessary under normal use.

Ventilation: Not necessary under normal use.

Other protective wear or equipment: Not necessary under normal use.

Section 9 – Physical/Chemical Characteristics

Melting point (°C): LiCoO₂ (about 1100°C), ethylene carbonate (38°C), chain carbonate (< 0°C)

Boiling point (°C): Ethylene carbonate (240°C), chain carbonate (100-130°C)

Flash point (°C): Ethylene carbonate (151°C), chain carbonate (21-33°C)

Specific gravity: LiCoO₂ (5g/cm³), LiNiO₂ (4.9g/cm³), graphite (2.1g/cm³)

Appearance: LiCoO₂, LiNiO₂ and graphite are black powder.

Section 10 - Stability and Reactivity

Stability: Product is stable under storage conditions described in section 7.

Conditions to avoid: Do not heat above 100°C (212°F, incinerate, or expose contents to water.

Hazardous decomposition or byproducts: N/A

Hazardous polymerization: Will not occur.

Section 11 - Toxicological Information

None unless internal materials are exposed.

In case of exposure, these cells contain the chemicals listed below.

Components	ACGIH
Lithium cobalt dioxide (LiCoO ₂)	0.02mg/m ³ as Co
Lithium Nickel Cobalt Complex Dioxide	1mg/m ³ as Ni
Lithium hexafluorophosphate (LiPF ₆)	2.5 mg/m ³ as F
Ethylene carbonate (C ₃ H ₄ O ₃)	Not Established
Chain carbonate (-)	Not Established
Graphite (C)	2 mg/m ³ as dust

In case of internal gas released or electrolyte spilled: Electrolyte containing LiPF₆ and organic solvents has a small amount of toxicity and may cause irritation of the skin or eyes. Released gas may also cause irritation of skin or eyes.

Section 12 - Ecological Information

Lithium ion cells and batteries should be disposed of in accordance with appropriate federal,

Test and Criteria 5th revised edition, Amendment 2

- The International Civil Aviation Organization (ICAO): Technical Instructions for Safety Transport of Dangerous Goods by Air, 2015-2016 edition
- The International Air Transport Association (IATA): Dangerous Goods Regulations, 56th edition
- International Maritime Organization (IMO): International Maritime Dangerous Goods (IMDG) Code, 2014 edition

Section 16 - Other Information

For further information, please contact a Maxell sales representative.