

## 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-A2Z0-0036 (customer replaceable) battery pack for hand-held-scanner BCS3678<sup>ex</sup>-NI series type numbers B7-A2S4-1HP0.

The battery pack includes Lithium Ion battery cells.

The battery pack is manufactured by Leung's Communication & electronic Products (Guangzhou) Ltd.

### Battery packs related to product:

Hand-held-scanner BCS3678<sup>ex</sup>-NI series (type no.'s B7-A2S4-1HP0).

<b>Type number:</b>	<b>B7-A2Z0-0036</b>
SAP:	418421
Zebra Reference number	82-166537-01
	(Battery for ATEX, IECEx Zone 2 and CSA Class I Division 2 certified Hand-held-scanner BCS3678 <sup>ex</sup> -NI series)
Technical data:	Lithium Ion Battery 3.6 V / 3150 mAh / 11.34 Wh
Weight:	approx. 0.063 kg
Dimension:	82 x 22.5 x 25 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

Max-Eyth-Straße 16  
97980 Bad Mergentheim

District court: Ulm HRB 723429  
Tax No.: 52001/09044  
VAT No.: DE 262 57 03 04

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

## Declaration

**BARTEC**

Related to this declaration is following documentation:

- Leung's Communication & electronic Products (Guangzhou) Ltd. MATERIAL SAFETY DATA SHEET  
Issue Date: 2015-2-12 / File S/N: TWS-IMS-QE-20150212 / Model: 82-166537-01

Bad Mergentheim, May, 25<sup>th</sup> 2018

BARTEC GmbH

i. V.



Benedikt Eckert  
*Product Line Manager Enterprise Mobility*

Type number:

- B7-A2Z0-0036

Leung's Communication & electronic Products  
(Guangzhou) Ltd.

**MATERIAL SAFETY DATA SHEET**

Issue Date: 2015-2-12 / File S/N: TWS-IMS-QE-  
20150212 / Model: 82-166537-01

## MATERIAL SAFETY DATA SHEET

File S/N: TWS-IMS-QE-20150212

Issue Date: 2015-2-12

We would like to inform our customers that these batteries are exempt articles and are not subject to the 29 CFR 1910.1200 OSHA requirements, or to the Canadian WHMIS requirements and the sheets are supplied as a service to you.

### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name</b>	Rechargeable Lithium Ion Battery
<b>Model</b>	82-166537-01
<b>Rating</b>	3,6V 3275mAh 11,79Wh
<b>Company:</b>	LEUNG'S COMMUNICATION & ELECTRIC PRODUCTS (GUANGZHOU) LTD
<b>Address:</b>	No.39 Nanyunsan Road, Science Park, Hi-Tech Industrial Development Zone Guangzhou,P.R.China,510663
<b>Manufacturer:</b>	LEUNG'S COMMUNICATION & ELECTRIC PRODUCTS (GUANGZHOU) LTD
<b>Address:</b>	No.39 Nanyunsan Road, Science Park, Hi-Tech Industrial Development Zone Guangzhou, P.R. China. 510663
<b>Telephone no.</b>	+ 86-20-22215111
<b>Fax no.</b>	+86-20-22213268

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Battery Cell

MATERIAL OR INGREDIENTS	PEL(OSHA)	TLV(ACGIH)	%/WT
Graphite (CAS# 7782-42-5)	5 mg/m <sup>3</sup> TWA(respirable fraction) 15 mg/m <sup>3</sup> TWA(total dust)	2mg/m <sup>3</sup> TWA(respirable fraction)	7-25
Lithium Cobalt Oxide (CAS# 12190-79-3)	0.1mg/m <sup>3</sup> TWA(as Co)	0.02mg/m <sup>3</sup> TWA(ac Co)	15-40
Hexafluoropropylene-vinylidene Fluoride Copolymer (CAS#9011-17-0)	None established	None established	3-15
Lithium Hexafluorophosphate (CAS# 21324-40-3)	None established	None established	0-5
Acetylene Black (CAS# 1333-86-4)	3.5mg/m <sup>3</sup> TWA (as carbon black)	3.5mg/m <sup>3</sup> TWA (as carbon black)	0-2
Diethyl Carbonate (CAS# 105-58-8)	None established	None established	0-15
Dimethyl Carbonate (CAS# 616-38-6)	None established	None established	0-15
Ethyl Methyl Carbonate (CAS# 623-53-0)	None established	None established	0-15
Propylene Carbonate (CAS # 108-32-7)	None established	None established	0-15
Ethylene Carbonate (CAS # 96-49-1)	None established	None established	0-15

## Circuit Module

<b>HAZARDOUS INGREDIENTS</b>	<b>%</b>	<b>CAS NUMBER</b>
Lead	<0.1	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

<b>HAZARDOUS INGREDIENTS</b>	<b>%</b>	<b>CAS NUMBER</b>
Polybrominated	More than 81 wt%	25971-63-5
Flame Retardant	Less than 12 wt%	
Elastomer	Less than 7 wt%	

### 3. HAZARDS 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.

### 4. FIRST AID MEASURES

INHALATION, EYE CONTACT, and SKIN CONTACT: Not a health hazard.

#### INGESTION

If swallowed, obtain 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.

## 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 EXTINGUISHING MEDIA

Use extinguishing media suitable for the materials that are burning.

### 5.3 SPECIAL FIREFIGHTING INSTRUCTIONS

If possible, remove cell(s) from fire fighting 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.

## 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.

## 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.

## 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

## 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.

## 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 Biphenyl (PBB)
- Polybrominated Diphenyl Ethers (PBDE)
- Polychlorinated Biphenyls (PCBs)
- Polychlorinated Triphenyls(PCTs)
- Polychlorinated Naphthalene (PCN)
- Short Chain 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:

## 12. ECOLOGICAL INFORMATION

The batteries do not contain mercury, cadmium or other heavy metals.

### **13. DISPOSAL CONSIDERATIONS**

Dispose by incineration or burial at permitted waste treatment and/or disposal sites.

Batteries do not contain hazardous materials according to EC directives 91/157/EEC and 93/86/EEC.

For large quantities a disposal service is offered upon request.

### **14. TRANSPORT INFORMATION**

With regard to transport, the following regulations are cited and considered.

- The International Civil Aviation Organization (ICAO) *Technical Instructions* (2015~2016 Edition)
- The International Air Transport Association (IATA) *Dangerous Goods Regulations* (56th edition, Packing Instruction 965 Section II or IB is applied as appropriate.  
Each package is capable of withstanding a 1.2m drop test in any orientation without damage to cells or batteries contained therein, without shifting of the contents so as to allow battery to battery contact and without release of contents.  
There is no hazard in accordance with the UN recommendation tests (UN *Manual of Tests and Criteria*, Part III, sub-section 38.3)
- International Maritime Organization, the *International Maritime Dangerous Goods(IMDG) Code*(Edition 2010,Special Provisions 188,230,310&957 for UN3480/3481 Lithium-Ion Battery , Packing Instruction P903 for Lithium-ion batteries)
- US Department of Transportation (DOT) 49 Code of Federal Regulations

### **15. REGULATORY INFORMATION:**

Local hazardous waste disposal laws.

This product is made from materials with no detectable mercury.

### **16. OTHER INFORMATION:**

The information contained in this Safety data sheet is based on the present state of knowledge and current legislation. This safety data sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

End of Safety Data Sheet