MATERIAL SAFETY DATA SHEET

Ni-CD Cylindrical Rechargeable Battery

Model: Ni-CD Cylindrical Battery

<table>
<thead>
<tr>
<th>Prepared by</th>
<th>Approved by</th>
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<tbody>
<tr>
<td>Zenghui</td>
<td>Yinshishu</td>
</tr>
<tr>
<td>Date: Jan 12, 2011</td>
<td>Date: Jan 12, 2011</td>
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The information and recommendations set forth are made in good faith and believed to be accurate as of the date of preparation. SHENZHEN BEST ELECTRONICS CO., LTD. makes no warranty, expressed or implied, with respect to this information and disclaims all liabilities from reliance on it.

--- File No./Rev.: BKT-MSDS-002/E00
Material Safety Data Sheet

Section 1-Chemical Product and Company Identification

Product Identification

BKT NI-CD Cylindrical Cell/Battery

Sample Code: D-AA700mAh
Nominal Voltage: 1.2 V
Testing Period: Jan 5, 2011 To Jan 10, 2011

Manufacturer

SHENZHEN BEST ELECTRONICS CO., LTD.
Ganbei Industrial Park, Longgang, Shenzhen, China
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Section 2-Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Composition</th>
<th>CAS No.</th>
<th>In % by Weight</th>
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<tbody>
<tr>
<td>Nickel</td>
<td>Ni</td>
<td>7440-02-2</td>
<td>8</td>
</tr>
<tr>
<td>Cobalt</td>
<td>Co</td>
<td>7440-48-4</td>
<td>0.4</td>
</tr>
<tr>
<td>Iron</td>
<td>Fe</td>
<td>7439-89-6</td>
<td>69.6</td>
</tr>
<tr>
<td>Cadmium oxide</td>
<td>CdO</td>
<td>1306-19-0</td>
<td>15</td>
</tr>
<tr>
<td>Potassium hydroxide</td>
<td>Liquid</td>
<td>1310-58-3</td>
<td>7</td>
</tr>
</tbody>
</table>

Section 3-Hazards Identification

Health Hazards (Acute and Chronic)
These chemicals are contained in a sealed can. Risk of exposure occurs only if the battery is mechanically or electrically abused. Contact of electrolyte and extruded lithium with skin and eyes should be avoided.

Sign/Symptoms of Exposure
A shorted battery can cause thermal and chemical burns upon contact with the skin. May be a reproductive hazard.
Section 4-First-aid Measures

Eye
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin
Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.

Inhalation
Remove from exposure and move to fresh air immediately. Use oxygen if available.

Ingestion
Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.

Section 5-Fire Fighting Measures

Extinguishing Media:
Dry chemical, carbon dioxide, water spray/regular foam.

Special Fire-Fighting Procedures
Self-contained breathing apparatus.

Unusual Fire and Explosion Hazards
Cell may vent when subjected to excessive heat-exposing battery contents.

Hazardous Combustion Products
Carbon monoxide, carbon dioxide, metal oxide, irritate fume and toxic gas.

Section 6-Accidental Release Measures

Steps to be Taken in case Material is Released or Spilled
If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the battery to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

Waste Disposal Method
It is recommended to discharge the battery to the end, handing in the abandoned batteries to related department unified, dispose of the batteries in accordance with approved local, state, and federal requirements. Consult state environmental protection agency and/or federal EPA.

Section 7-Handling and Storage

The battery should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container.
If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the battery to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire. Do not crush or puncture the battery, or immerse in liquids.

**Precautions to be taken in handling and storing**

Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided.

Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.

**Other Precautions**

The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

### Section 8-Exposure Controls/Personal Protection

**Respiratory Protection**

In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use.

**Ventilation**

Not necessary under conditions of normal use.

**Protective Gloves**

Not necessary under conditions of normal use.

**Other Protective Clothing or Equipment**

Not necessary under conditions of normal use.

**Personal Protection is recommended for venting battery**

Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields.

### Section 9-Physical and Chemical Properties

**Nominal Voltage**: 1.2V

**Rated Capacity**: 700mAh.

**Appearance characters**: Silver, with odorless square solid battery.

**Chemical Uses**: Power source.

### Section 10- Stability and Reactivity

**Stability**

Stable

**Conditions to Avoid**
Section 11-Toxicological Information

Inhalation, skin contact and eye contact are possible when the battery is opened.

Exposure to internal contents, the corrosive fumes will be very irritating to skin, eyes and mucous membranes.

Overexposure can cause symptoms of non-fibrotic lung injury and membrane irritation.

Section 12-Ecological Information

When promptly used or disposed the battery does not present environmental hazard. When disposed, keep away from water, rain and snow.

Section 13-Disposal Considerations

**APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR REPARATION**

It is recommended to discharge the battery to the end, handing in the abandoned batteries to related department unified, dispose of the batteries in accordance with approved local, state, and federal requirements. Consult state environmental protection agency and/or federal EPA.

Section 14-Transport Information

Not a hazard material or hazard goods for transportation.

Separate Nickel-Cadmium batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain. The container must be handled carefully. Do not give shocks that result in a mark of hitting on a cell. Please refer to Section 7-HANDLING AND STORAGE also.

Transport Fashion: By air, by sea, by railway, by highway.
Section 15-Regulatory Information

Law Information

《Dangerous Goods Regulation》
《Recommendations on the Transport of Dangerous Goods Model Regulations》
《International Maritime Dangerous Goods》
《Technical Instructions for the Safe Transport of Dangerous Goods》
《Classification and code of dangerous goods》
《Occupational Safety and Health Act》 (OSHA)
《Toxic Substances Control Act》 (TSCA)
《Consumer Product Safety Act》 (CPSA)
《Federal Environmental Pollution Control Act》 (FEPCA)
《The Oil Pollution Act》 (OPA)
《Superfund Amendments and Reauthorization Act Title III（302/311/312/313）》 (SARA)
《Resource Conservation and Recovery Act》 (RCRA)
《Safety Drinking Water Act》 (CWA)
《California Proposition 65》
《Code of Federal Regulations》 (CFR)

In accordance with all Federal, State and Local laws.

Section 16-Other Information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

MSDS Creation Date: Jan 12, 2011