MATERIAL SAFETY DATA SHEET

Date: Jan 8th, 2013
Reference No.: EJ-H5-835

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product
Product name: Ni-MH Battery
Chemical System: Nickel and Metal Hydride
Model: Cylindrical, Prismatic and coin Type Cells
Designated for RECHARGE? Yes __ No

Manufacturer/supplier identification
Company: E&J TECHNOLOGY GROUP CO., LTD
Contact for information: Building 13, 403 gong village industry, Longhua, Shenzhen, China
Emergency telephone No.: 0086-755-29064219

2. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percent</th>
<th>CAS Index No./EC No.</th>
<th>Molar mass</th>
<th>Molecular formula</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel Hydroxide</td>
<td>29.1%</td>
<td>12054-48-7</td>
<td>Ni(OH)₂</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cobalt Oxide</td>
<td>2.1%</td>
<td>1307-96-6</td>
<td>CoO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nickel Powder</td>
<td>0.2%</td>
<td>7440-02-0</td>
<td>Ni</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alloy Powder</td>
<td>42.4%</td>
<td>N/A</td>
<td>MH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Hydroxide</td>
<td>0.7%</td>
<td>1310-58-3</td>
<td>KOH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lithium Hydroxide</td>
<td>0.1%</td>
<td>1310-65-2</td>
<td>LiOH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foamed Nickel</td>
<td>11.6%</td>
<td>7440-02-0</td>
<td>Ni</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polypropylene</td>
<td>7.1%</td>
<td>9003-07-0</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steel</td>
<td>6.7%</td>
<td>7439-89-6</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Hazards identification

Routes of Entry:
Inhalation - Yes
Skin - Yes
Ingestion – Yes
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. The most likely risk is an acute exposure when the gas release vent works. KOH solution has slight toxicity and can irritate skin and eyes.

Carcinogenicity:
NTP: None IARC Monograph: None OSHA Regulated: None

Medical Conditions Generally Aggravated by Exposure:
An acute exposure will not generally aggravate any medical condition.

4. First aid measures
After skin contact: In case of skin contact with contents of battery, flush immediately with water. If irritation persists, get medical help.

After eye contact: For eye contact, flush with copious amounts of water for 15 minutes. Do not inhale leaked material. If irritation persists, get medical help.

Inhalation: If potential for exposure to fumes or dusts occurs, remove immediately to fresh air and seek medical attention.

5. Fire-fighting measures

Extinguishing Media: Any class of extinguishing medium may be used on the batteries or their packing material.

Flammable Limits: Not available

Special Fire Fighting Procedures: Exposure to temperatures of above 212°F can cause venting of the liquid electrolyte. Internal shorting could also cause venting of the electrolyte. There is potential for exposure to iron, nickel, cobalt, rare earth metals (cerium, lanthanum neodymium, and praseodymium), manganese, and aluminum fumes during fire; use self-contained breathing apparatus.

6. Accidental release measures

The preferred response is to leave the area and allow the batteries to cool and the vapors to dissipate. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

7. Handling and storage

Storage: Store in a cool, well ventilated area. Elevated temperatures can result in shortened battery life.

Mechanical Containment: Never seal or encapsulate nickel and metal hydride batteries.

Do not obstruct safety release vents on batteries. Encapsulation (potting) of batteries will not allow cell venting and can cause high pressure rupture.

Handling: Accidental short circuit for a few seconds will not seriously affect the battery. However, this battery is capable of delivering very high short circuit currents. Prolonged short circuits will cause high cell temperatures which can cause skin burns. Sources of short circuits include jumbled batteries in bulk containers, metal jewelry, and metal covered tables or metal belts used for assembly of batteries into devices.

If soldering or welding to the battery is required, use of tabbed batteries is recommended. If this cannot be done, consult your E&J Technology Group Company representative for proper precautions to prevent seal damage or short circuit.

Do not open battery. The negative electrode material may be pyrophoric. Should an individual cell from a battery become disassembled, spontaneous combustion of the negative electrode is possible. This is much more likely to happen if the electrode is removed from its metal container. Here can be a delay between exposure to air and spontaneous combustion.

Charging: This battery is made to be charged many times. Because it gradually loses its charge over a few months, it is good practice to charge battery before use. Use recommended charger. Improper charging can cause heat damage or even high pressure rupture. Observe proper charging polarity.

Labeling: If the E&J label or package warnings are not visible, it is important to provide a package and/or device label stating:
WARNING: CHARGE ONLY WITH SPECIFIED CHARGERS ACCORDING TO DEVICE MANUFACTURER’S INSTRUCTIONS. DO NOT OPEN BATTERY, DISPOSE OF IN FIRE OR SHORT CIRCUIT - MAY IGNITE, EXPLODE, LEAK OR GET HOT CAUSING PERSONAL INJURY.

Where accidental ingestion of small batteries is possible, the label should state:
WARNING: (1) KEEP AWAY FROM SMALL CHILDREN. IF SWALLOWED, PROMPTLY SEE DOCTOR; (2) CHARGE ONLY WITH SPECIFIED CHARGERS ACCORDING TO DEVICE MANUFACTURER’S INSTRUCTIONS. DO NOT OPEN BATTERY, DISPOSE OF IN FIRE OR SHORT CIRCUIT - MAY IGNITE, EXPLODE, LEAK OR GET HOT CAUSING PERSONAL INJURY.

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

8. Exposure controls/personal protection

Specific control parameter:
Personal protective equipment:

Respiratory protection: Not necessary under conditions of normal use.
(Specify Type):
Ventilation: Not necessary under conditions of normal use.
Protective Gloves:
Not necessary under conditions of normal use. Use neoprene or natural rubber gloves if handling an open or leaking battery.
Eye protection:
Not necessary under conditions of normal use. Wear safety glasses with side shields if handling an open or leaking battery.
Other Protective (Clothing or Equipment): Not necessary under conditions of normal use.
Open Battery Storage:
Battery should not be opened. Should a cell become disassembled, the electrode should be stored in a fireproof cabinet, away from combustibles.

9. Physical and chemical properties

Appearance:
Ni(OH)₂ is an apple green, odorless powder.
CoO is a black, odorless powder.
MH is a black, odorless powder.
KOH is colorless, odorless liquid.

Specific Gravity: (H₂O=1): Ni(OH)₂: 5.15
Melting Point: (°C): Ni(OH)₂ decomposes at 230 deg. C

10. Stability and reactivity

Stability: Stable
Conditions to Avoid: Do not heat or disassemble.
Hazardous Decomposition or By-products: N/A
Hazardous polymerization will not occur.

11. Toxicological information

Under normal conditions of use, the battery is hermetically sealed.
Ingestion: Swallowing a battery can be harmful. Contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.

Inhalation: Contents of an open battery can cause respiratory irritation. Hypersensitivity to nickel can cause allergic pulmonary asthma.

Skin Contact: Contents of an open battery can cause skin irritation and/or chemical burns. Nickel, nickel compounds, cobalt, and cobalt compounds can cause skin sensitization and an allergic contact dermatitis.

Eye Contact: Contents of an open battery can cause severe irritation and chemical burns.

Note: Nickel, nickel compounds, cobalt, and cobalt compounds are listed as possible carcinogens by International Agency for Research on Cancer (IARC) or National Toxicology Program (NTP).

12. Ecological information

Ecotoxic effects: N/A
Further ecological data: N/A

13. Disposal considerations

E&J encourages battery recycling. Our Ni-MH batteries are recyclable through the Rechargeable Battery Recycling Corporation’s (RBRC) Charge Up to Recycle! Program. For information call 1-800-8-BATTERY or see their website at www.rbrc.org. Ni-MH batteries must be handled in accordance with all applicable state and federal laws and regulations.

DO NOT INCINERATE or subject battery cells to temperatures in excess of 212 F. Such treatment can vaporize the liquid electrolyte causing cell rupture. Incineration may result in cadmium emissions.

14. Transport information

In general, all batteries in all forms of transportation (ground, air, or ocean) must be packaged in a safe and responsible manner. Regulatory concerns from all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in ‘strong outer packaging’ that prevents spillage of contents. All original packaging for E&J Nickel Metal Hydride batteries has been designed to be compliant with these regulatory concerns.

E&J Nickel Metal Hydride batteries (sometimes referred to as ‘dry cell’ batteries) are not defined as hazardous materials (dangerous goods) under International Air Transport Association (IATA) Dangerous Goods Regulations, International Civil Aviation Organization (ICAO) Technical Instructions and U.S. Department of Transportation (DOT) hazardous materials regulations (49 CFR). Nickel Metal Hydride batteries are defined as dangerous goods under the IMDG code. For air and ground transportation, these batteries are not subject to the dangerous goods regulations as they are compliant with the requirements contained in the following special provisions.

<table>
<thead>
<tr>
<th>Regulatory Body</th>
<th>Special Provisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR</td>
<td>295-304, 598</td>
</tr>
<tr>
<td>IMDG</td>
<td>UN3496 SP 963</td>
</tr>
<tr>
<td>UN</td>
<td>UN3028 Provisions 295-304</td>
</tr>
<tr>
<td>US DOT</td>
<td>49 CFR 172.102 Provision 130</td>
</tr>
<tr>
<td>IATA</td>
<td>A123</td>
</tr>
<tr>
<td>ICAO</td>
<td>UN3028 Provisions 295-304</td>
</tr>
</tbody>
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In addition, the IATA Dangerous Goods Regulations and ICAO Technical Instructions require the words ‘not restricted’ and the Special Provision number A123 be provided on the air waybill, when an air waybill...
is issued.

15. Regulatory information
The transportation of dry cell batteries manufactured or sold by E&J TECHNOLOGY GROUP CO., LTD is not regulated by the China Department of Transportation or the major international regulatory bodies.

16. Other information

<table>
<thead>
<tr>
<th>Make people</th>
<th>Professional post</th>
<th>Name(sign)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>R&amp;D Engineer</td>
<td>Eric Lam</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Make unit</th>
<th>Name</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>R&amp;D Department</td>
<td>0086-755-29064219</td>
</tr>
<tr>
<td></td>
<td>Address</td>
<td>R&amp;D Dept., Panyu Plant,</td>
</tr>
</tbody>
</table>

Date of issue: 2013/01/08

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