1. PRODUCT / COMPANY IDENTIFICATION

PRODUCT IDENTIFICATION
Samsung SDI Lithium-Ion Cell/Battery
Samsung SDI Navajo
SDI P/N : P11P10-16-N01
HH P/N : 2Q0117J00-026-G
HP P/N : 419964-001(REV 02)
Issue Date : 06/03/2008
Reference # : SDI20080306-001

<table>
<thead>
<tr>
<th>Item</th>
<th>Nominal Value</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Voltage</td>
<td>3.7V</td>
<td></td>
</tr>
<tr>
<td>Nominal Capacity</td>
<td>1200mAh</td>
<td></td>
</tr>
<tr>
<td>Lithium Contents</td>
<td>0.36g</td>
<td></td>
</tr>
</tbody>
</table>

MANUFACTURER
Samsung SDI Corporation
508 Sungsung-Dong Cheonan City Chungchongnam-Do, Korea
Telephone : 82-41-560-3650
Fax : 82-41-560-3697
e-mail : jmin.chung@samsung.com

2. COMPOSITION INFORMATION

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>%</th>
<th>CAS NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Foil</td>
<td>2-10</td>
<td>7429-90-5</td>
</tr>
<tr>
<td>Metal Oxide (proprietary)</td>
<td>20-50</td>
<td>Confidential</td>
</tr>
<tr>
<td>Polyvinylidene Fluoride (PVDF)</td>
<td>&lt;5</td>
<td>24937-79-9</td>
</tr>
<tr>
<td>Styrene Butadiene Rubber(SBR)</td>
<td>&lt;5</td>
<td>9003-55-8</td>
</tr>
<tr>
<td>Copper Foil</td>
<td>2-10</td>
<td>7440-50-8</td>
</tr>
<tr>
<td>Carbon (proprietary)</td>
<td>10-30</td>
<td>7440-44-0</td>
</tr>
<tr>
<td>Electrolyte (proprietary)</td>
<td>10-20</td>
<td>Confidential</td>
</tr>
<tr>
<td>Aluminum and inert materials</td>
<td>Remainder</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY
Skin contact, Skin absorption, Eye contact, Inhalation, and Ingestion : NO

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SYMPTOMS OF EXPOSURE
Skin contact, Skin absorption, Eye contact, Inhalation  
→ No effect under routine handling and use.
REPORTED AS CARCINOGEN
NOT APPLICABLE

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 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

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.

EXTINGUISHING MEDIA
Use extinguishing media suitable for the materials that are burning.

SPECIAL FIREFIGHTING INSTRUCTIONS
If possible, remove cell(s) from fire fighting area. If heated above 125°C, cell(s) can explode/vent.

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

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6. ACCIDENTAL RELEASE MEASURES

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

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

7. HANDLING AND STORAGE

HANDLING
No special protective clothing required for handling individual cells.

STORAGE
Store in a cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>Solid</td>
</tr>
<tr>
<td>PH</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor density</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Density</td>
<td>N/A</td>
</tr>
<tr>
<td>Odor</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling point</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>N/A</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

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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:

- Polybromated Biphenyls (PBB)
- Polybromated Biphenyl Ethers (PBBE)
- Polybromated Biphenyl Oxides (PBBO)
- Polybromated Diphenylethers (PBDE)
- Polychlorinated Biphenyl (PCB)
- Polychloronated Diphenylethers (PCDE)
- Tetrabromophisphenol A (TBBPA)
- Asbestos, Antimonytrioxide, Dioxine

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

- Chlorinated Fluorohydrocarbon (FCKW)
- Acrylonitride
- Styrol
- 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/cell, 1.5g/battery
- Cadmium, lead, and other harmful heavy metal

This product does not contain mercury, cadmium and lithium-metal.
Mercury content: N/A
Lithium-metal: 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.

12. ECOLOGICAL INFORMATION
Some materials within the cell are bioaccumulative. Under normal conditions, these materials are contained and pose no risk to persons or the surrounding environment.

13. DISPOSAL CONSIDERATION
CALIFORNIA REGULATED DEBRIS

RCRA Waste Code: Non-regulated
Dispose of according to all federal, state, and local regulations.

14. REGULATORY INFORMATION
OSHA hazard communication standard (29 CFR 1910.1200)

___ Hazardous  ___ Non-hazardous

15. TRANSPORT INFORMATION
Lithium ion batteries containing no more than 1.5g/cell and 8g/battery pack of lithium can be treated as “Non-dangerous goods” under the United Nations Recommendations on the Transport of Dangerous Goods, Special Provision 188, provided that packaging is strong and prevent the products from short-circuit.

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

- The US Hazardous Materials Regulation (HMR) pursuant to a final rule issued by RSPA (Part 49 CFR Sections 100-185),
- The Office of Hazardous Materials Safety within the US Department of Transportation’s (DOT) Research and Special Programs Administration (RSPA), and

Our products are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to all the applicable international and national governmental regulations, not limited to the above mentioned. We further certify that the enclosed products have been tested and fulfilled the requirements and conditions in accordance with UN Recommendations (T1 – T8) on the Transport of Dangerous Goods Model Regulations and the Manual of Tests and Criteria that can be treated as “Non-Dangerous Goods”.

### Test results of the UN Recommendation on the Transport of Dangerous Goods

<table>
<thead>
<tr>
<th>Manual of Test and Criteria(38.3 Lithium battery)</th>
<th>Test Results</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Test item</td>
<td></td>
</tr>
<tr>
<td>T1 Altitude Simulation</td>
<td>Pass</td>
<td></td>
</tr>
<tr>
<td>T2 Thermal Test</td>
<td>Pass</td>
<td></td>
</tr>
<tr>
<td>T3 Vibration</td>
<td>Pass</td>
<td></td>
</tr>
<tr>
<td>T4 Shock</td>
<td>Pass</td>
<td></td>
</tr>
<tr>
<td>T5 External Short Circuit</td>
<td>Pass</td>
<td></td>
</tr>
<tr>
<td>T6 Impact</td>
<td>Pass</td>
<td></td>
</tr>
<tr>
<td>T7 Overcharge</td>
<td>Pass</td>
<td>For pack only</td>
</tr>
<tr>
<td>T8 Forced Discharge</td>
<td>Pass</td>
<td>For cell only</td>
</tr>
</tbody>
</table>

### 16. OTHER INFORMATION

For further information, please contact SAMSUNG SDI sales representative.