The batteries are exempt articles and are not subject to the OSHA Hazard Communication Standard 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. However, Maxell makes no warranty expressed or implied.

Section 1 - Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Sizes:</th>
<th>Date of preparation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coin Type Lithium Manganese Dioxide Batteries (CR)</td>
<td>CR2032</td>
<td>Aug. 29, 2005</td>
</tr>
</tbody>
</table>

Company: Maxell Asia, Ltd.

Telephone Numbers: 852-2730-9243

Address (Number, Street, City, State, and ZIP Code):

506, World Commerce Centre, Harbour City, Phase 1, Canton Road, Kowloon, Hong Kong.

Fax Numbers: 852-2735-6250

Section 2 - Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS#</th>
<th>Content (wt%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive material</td>
<td>Manganese Dioxide</td>
<td>1313-13-9</td>
</tr>
<tr>
<td></td>
<td>Graphite</td>
<td>7782-42-5</td>
</tr>
<tr>
<td></td>
<td>Teflon</td>
<td>9002-84-0</td>
</tr>
<tr>
<td>Electrolyte solution</td>
<td>Propylene Carbonate</td>
<td>108-32-7</td>
</tr>
<tr>
<td></td>
<td>1,2-Dimethoxyethane</td>
<td>110-71-4</td>
</tr>
<tr>
<td></td>
<td>Lithium Perchlorate</td>
<td>7791-03-9</td>
</tr>
<tr>
<td>Negative material</td>
<td>Lithium</td>
<td>7439-93-2</td>
</tr>
<tr>
<td>Positive and negative can</td>
<td>Stainless steel</td>
<td>-</td>
</tr>
<tr>
<td>Gasket and separator</td>
<td>Polypropylene</td>
<td>9003-07-0</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

This contains lithium, organic solvent, and other combustible materials. For this reason, improper handling of the battery could lead to distortion, leakage*, overheating, explosion, or fire and cause human injury or equipment trouble. Please strictly observe safety instructions.

(* Leakage is defined as an unintended escape of liquid from a battery.)

Section 4 - First Aid Measures

None unless internal materials exposure. If contents are leaked out, observe following

NA=Not Applicable
Inhalation
Fumes can cause respiratory irritation. Remove to fresh air and consult a physician.

Skin
Immediately flush skin with plenty of water. If itch or irritation by chemical burn persists, consult a physician.

Eyes
Immediately flush eye with plenty of water for at least 15 minutes. Consult a physician immediately.

Ingestion
If swallowing a battery, consult a physician immediately.
If contents come into mouth, immediately rinse by plenty of water and consult a physician.

Section 5 - Fire Fighting Measures
Extinguishing Media
Extinguisher of alkaline metal fire is effective.
Plenty of cold water is also effective to cool the surrounding area and control the spread fire. But hydrogen gas may be evolved by the reaction of water and lithium and it can form an explosive mixture. Therefore in the case that lots of lithium batteries are burning in a confined space, use a smothering agent.

Fire fighting procedure
Use self-contained breathing apparatus and full protective gear not to inhale harmful gas.

Section 6 - Accidental Release Measures
NA

Section 7 - Handling and Storage
1) Handling

2) Storage
Never let the battery contact with water. Never store the battery in hot and high humid place.

Section 8 - Exposure Controls, Personal Protection
NA=Not Applicable
Respiratory Protection NA
Ventilation Local Exhaust NA
               Mechanical NA
               Special NA
               Other NA
Eye Protection NA
Protective Gloves NA
Other protective clothing NA

Section 9 - Physical/Chemical Characteristics
NA

Section 10 - Stability and Reactivity
Stability Stable
Incompatibility Water
Hazardous polymerization Will not occur.
Condition to avoid See section 7.
Hazardous Decomposition or Byproducts Hydrogen

Section 11 - Toxicological Information
NA

Section 12 - Ecological Information
NA

Section 13 - Disposal condition
The battery may be regulated by national or local regulation. Please follow the instructions of proper regulation. As electric capacity is left in a discarded battery and it comes into contact with other metals, it could lead to distortion, leakage, overheating, or explosion, so make sure to cover the (+) and (-) terminals with friction tape or some other insulator before disposal.

Section 14 - Transportation Information
Shipping Name Lithium Batteries
UN Number UN3090 (UN3091 for Lithium batteries in equipment)
Hazard Classification Class 9 (Miscellaneous)
Organizations governing the transport of lithium batteries

NA=Not Applicable
<table>
<thead>
<tr>
<th>Area</th>
<th>Method</th>
<th>Organization</th>
<th>Special Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>International</td>
<td>Air</td>
<td>IATA, ICAO</td>
<td>A45</td>
</tr>
<tr>
<td>International</td>
<td>Water</td>
<td>IMO</td>
<td>188</td>
</tr>
<tr>
<td>U.S.A</td>
<td>Air, Rail, Highway, Water</td>
<td>DOT</td>
<td>49 CFR Section 173.185</td>
</tr>
</tbody>
</table>

Their regulations are based on the UN Recommendations. Each special provision provides specifications on exceptions and packaging for lithium batteries shipping. All CR batteries of Maxell meet all special provisions.

Ref) Summary of A45 (IATA Dangerous Goods Regulations 44th Edition)

If all of following 3 requirements is satisfied, lithium batteries can be transported as no dangerous goods.

1) Lithium weight or equivalent lithium content* must be less than value in table.

<table>
<thead>
<tr>
<th></th>
<th>Lithium Cell/Battery (Lithium weight)</th>
<th>Lithium Ion Cell/Battery (Equivalent lithium content)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell</td>
<td>1g or less</td>
<td>1.5g or less</td>
</tr>
<tr>
<td>Battery</td>
<td>2g or less</td>
<td>8g or less</td>
</tr>
</tbody>
</table>

*Equivalent lithium content (g) is calculated as 0.3(g/Ah) times the rated capacity (Ah).

2) Cells and batteries must meet the requirements of the UN T1–T8 tests.

3) Each package containing 24 cells or 12 batteries:
   a) Be marked to indicate that it contains lithium batteries, and that special procedures be followed in the event that the package is damaged.
   b) Be accompanied by a shipping paper explaining that the cells and batteries are excepted from regulations.
   c) Weigh no more than 30kg (gross weight).
   d) Be capable of withstanding a 1.2m drop test in any orientation without shifting of the contents that allow short-circuiting, and without release of package contents.

Because the consignor has to take the responsibility, the customer has to confirm the exception condition when shipping.

**Section 15 - Regulatory Information**

NA

**Section 16 - Other Information**

If you want further information, please contact Maxell sales representative.

NA=Not Applicable