1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier
Product Name: Nickel Cadmium Battery
Chemical Name: Nickel Cadmium Battery

Other means of identification

Recommended use of the chemical and restrictions on use
Recommended Use: Used in electric tools
Uses advised against: No information available

Details of the supplier of the safety data sheet
Supplier: Jiangsu Highstar Battery Manufacturing Co., Ltd.
Address: No.306 Heping Road(s), Qidong City, Jiangsu, China
Postal Code: 226200
Phone: 0086-513-80795666
FAX: 0086-513-83312306
E-mail: chenj@highstar.net.cn

Emergency telephone number: 0086-513-80795666

2. HAZARDS IDENTIFICATION

GHS Classification
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements
Symbols/Pictograms: None
Signal word: None
Hazard Statements: None
Precautionary Statements:
Prevention: None
Response: None
Storage: None
Disposal: None

Hazards not otherwise classified (HNOC)
No information available

Unknown acute toxicity
.% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Mixture

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel</td>
<td>7440-02-0</td>
<td>10 - 25</td>
</tr>
<tr>
<td>Cadmium and compounds (as Cd)</td>
<td>7440-43-9</td>
<td>10 - 25</td>
</tr>
<tr>
<td>Cadmium hydroxide (Cd(OH)2)</td>
<td>21041-95-2</td>
<td>12 - 23</td>
</tr>
<tr>
<td>Nickel hydroxide</td>
<td>12054-48-7</td>
<td>6 - 14</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

**Description of first aid measures**

- **General advice**: Remove contaminated clothing and shoes. If symptoms persist, call a physician.
- **Inhalation**: Not an expected route of exposure. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- **Skin Contact**: Wash hands thoroughly after handling.
- **Eye contact**: Not an expected route of exposure.
- **Ingestion**: Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Extinguishing media**

- **Suitable extinguishing media**: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- **Unsuitable extinguishing media**: No information available.

**Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Use personal protection recommended in Section 8.

**Methods and material for containment and cleaning up**

Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers. Avoid release to the environment.

7. HANDLING AND STORAGE

**Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid creating dust. Avoid contact with eyes. Wash thoroughly after handling. Use personal protection recommended in Section 8.
Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a dry, cool and well-ventilated place
Keep away from heat

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
<th>Denmark</th>
<th>European Union</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel (CAS #: 7440-02-0)</td>
<td>TWA: 1.5 mg/m³ inhalable fraction</td>
<td>TWA: 1 mg/m³ (vacated) TWA: 1 mg/m³</td>
<td>IdLH: 10 mg/m³ IdLH: 10 mg/m³ Ni TWA: 0.015 mg/m³ TWA: 0.015 mg/m³ except Nickel carbonyl Ni</td>
<td>TWA: 0.05 mg/m³</td>
<td>-</td>
</tr>
<tr>
<td>Cadmium and compounds (as Cd) (CAS #: 7440-43-9)</td>
<td>TWA: 0.01 mg/m³ TWA: 0.002 mg/m³ respirable fraction TWA: 0.01 mg/m³ Cd TWA: 0.002 mg/m³ Cd respirable fraction</td>
<td>TWA: 0.1 mg/m³ fume applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect TWA: 0.2 mg/m³ dust applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect TWA: 5 µg/m³ (vacated) STEL: 0.3 ppm fume Ceiling: 0.3 mg/m³ fume applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect Ceiling: 0.6 mg/m³ dust applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect</td>
<td>IdLH: 9 mg/m³ dust IdLH: 9 mg/m³ Cd dust and fume TWA: 0.005 mg/m³</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Cadmium hydroxide (Cd(OH)₂) (CAS #: 21041-95-2)</td>
<td>TWA: 0.01 mg/m³ Cd TWA: 0.002 mg/m³ Cd respirable fraction</td>
<td>-</td>
<td>-</td>
<td>TWA: 0.005 mg/m³</td>
<td>-</td>
</tr>
<tr>
<td>Nickel hydroxide (CAS #: 12054-48-7)</td>
<td>TWA: 0.2 mg/m³ Ni inhalable fraction</td>
<td>TWA: 1 mg/m³ Ni (vacated) TWA: 1 mg/m³ Ni</td>
<td>IdLH: 10 mg/m³ Ni TWA: 0.015 mg/m³ except Nickel carbonyl Ni</td>
<td>TWA: 0.05 mg/m³</td>
<td>-</td>
</tr>
</tbody>
</table>

For each chemical, the following columns represent the exposure limits in different countries:
- **Latvia**
- **France**
- **Finland**
- **Germany**
- **Italy**

**Chemical Name**
- **Nickel (CAS #: 7440-02-0)**
- **Cadmium and compounds (as Cd) (CAS #: 7440-43-9)**
- **Nickel hydroxide (CAS #: 12054-48-7)**

**Latvia**
- TWA: 0.05 mg/m³
- TWA: 1 mg/m³
- TWA: 1 mg/m³ TWA: 0.1 mg/m³
- Skin
- -

**France**
- TWA: 1 mg/m³
- TWA: 1 mg/m³
- TWA: 0.1 mg/m³
- Skin
- -

**Finland**
- TWA: 1 mg/m³
- TWA: 0.05 mg/m³
- TWA: 0.05 mg/m³
- Skin
- -

**Germany**
- TWA: 1 mg/m³
- TWA: 0.05 mg/m³
- TWA: 0.05 mg/m³
- Skin
- -

**Italy**
- TWA: 1 mg/m³
- TWA: 0.05 mg/m³
- TWA: 0.05 mg/m³
- Skin
- -

**Chemical Name**
- **Nickel (CAS #: 7440-02-0)**
- **Cadmium and compounds (as Cd) (CAS #: 7440-43-9)**
- **Nickel hydroxide (CAS #: 12054-48-7)**

**Poland**
- TWA: 0.25 mg/m³
- TWA: 1.5 mg/m³
- TWA: 1 mg/m³
- TWA: 0.5 mg/m³
- -

**Portugal**
- TWA: 0.01 mg/m³
- TWA: 0.002 mg/m³
- TWA: 0.002 mg/m³
- TWA: 0.002 mg/m³
- TWA: 0.015 mg/m³
- Skin

**Spain**
- TWA: 0.01 mg/m³
- TWA: 0.01 mg/m³
- TWA: 0.01 mg/m³
- TWA: 0.01 mg/m³
- Skin
- TWA: 0.015 mg/m³

**Switzerland**
- TWA: 0.25 mg/m³
- TWA: 0.2 mg/m³
- TWA: 0.2 mg/m³
- TWA: 0.2 mg/m³
- TWA: 0.05 mg/m³
- -

**Netherlands**
- TWA: 0.05 mg/m³
- TWA: 1.5 mg/m³
- TWA: 1 mg/m³
- TWA: 0.5 mg/m³
- -

**Chemical Name**
- **Nickel (CAS #: 7440-02-0)**
- **Cadmium and compounds (as Cd) (CAS #: 7440-43-9)**
- **Nickel hydroxide (CAS #: 12054-48-7)**

**Norway**
- TWA: 0.05 mg/m³
- TWA: 1.5 mg/m³
- 1 mg/m³
- -

**United Kingdom**
- TWA: 0.05 mg/m³
- TWA: 0.15 mg/m³
- TWA: 0.5 mg/m³
- -

**Australia**
- TWA: 0.05 mg/m³
- TWA: 1.5 mg/m³
- 1 mg/m³
- -

**Austria**
- TWA: 0.05 mg/m³
- TWA: 0.15 mg/m³
- TWA: 0.5 mg/m³
- -

**Belgium**
- TWA: 0.05 mg/m³
- TWA: 0.15 mg/m³
- TWA: 0.5 mg/m³
- -
Cadmium and compounds (as Cd) (CAS #: 7440-43-9) TWA: 0.05 mg/m$^3$ STEL: 0.15 mg/m$^3$ TWA: 0.025 mg/m$^3$ STEL: 0.075 mg/m$^3$ 0.01 mg/m$^3$ - -
Cadmium hydroxide (Cd(OH)$_2$) (CAS #: 21041-95-2) - - - 0.01 mg/m$^3$ - -
Nickel hydroxide (CAS #: 12054-48-7) TWA: 0.05 mg/m$^3$ STEL: 0.15 mg/m$^3$ TWA: 0.5 mg/m$^3$ - - -

**Appropriate engineering controls**
- Showers
- Eyewash stations
- Ventilation systems

**Individual protection measures, such as personal protective equipment**
- **Respiratory protection**
  If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
  - Hand Protection: Wear protective gloves.
  - Eye/face protection: No special technical protective measures are necessary.
  - Skin and body protection: Wear suitable protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**
**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid</td>
</tr>
<tr>
<td>Color</td>
<td>No information available</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Bulk density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>Not determined</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Not determined</td>
</tr>
<tr>
<td>Partition coefficient (LogPow)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>Not determined</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>Not determined</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not an explosive</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

**Other information**
- No information available

**10. STABILITY AND REACTIVITY**

**Reactivity**
- Stable under recommended storage and handling conditions (see SECTION 7, handling and storage).
Chemical stability  
Stable under normal conditions

Possibility of Hazardous Reactions  
None under normal processing

Conditions to avoid  
Strong heating. Incompatible materials

Incompatible materials  
Strong acids Strong bases Strong oxidizing agents

Hazardous Decomposition Products  
None known based on information supplied

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure  
Inhalation: Inhalation of vapors in high concentration may cause irritation of respiratory system  
Eye contact: Contact with eyes may cause irritation  
Skin Contact: Substance may cause slight skin irritation  
Ingestion may cause irritation to mucous membranes

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel (CAS #: 7440-02-0)</td>
<td>&gt; 9000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Cadmium and compounds (as Cd) (CAS #: 7440-43-9)</td>
<td>= 2330 mg/kg (Rat)</td>
<td>-</td>
<td>= 25 mg/m³ (Rat) 30 min</td>
</tr>
<tr>
<td>Nickel hydroxide (CAS #: 12054-48-7)</td>
<td>-</td>
<td>-</td>
<td>= 1200 mg/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>Iron (CAS #: 7439-89-6)</td>
<td>98.6 g/kg bw (rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation  
Non-irritating to the skin

Serious eye damage/eye irritation  
No eye irritation

Sensitization  
No information available

Germ cell mutagenicity  
No information available

Carcinogenicity  
This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel (CAS #: 7440-02-0)</td>
<td>-</td>
<td>Group 2B</td>
<td>Known Reasonably Anticipated</td>
<td>X</td>
</tr>
<tr>
<td>Cadmium and compounds (as Cd) (CAS #: 7440-43-9)</td>
<td>A2</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
<tr>
<td>Cadmium hydroxide (Cd(OH)2) (CAS #: 21041-95-2)</td>
<td>A2</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Nickel hydroxide (CAS #: 12054-48-7)</td>
<td>A1</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
</tbody>
</table>
12. ECOLOGICAL INFORMATION

**Ecotoxicity**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants EC50</th>
<th>Fish LC50</th>
<th>Crustacea EC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel (CAS #: 7440-02-0)</td>
<td>0.18 mg/L/72h Pseudokirchneriella subcapitata 0.174 - 0.311 mg/L/96h Pseudokirchneriella subcapitata static</td>
<td>100 mg/L/96h Brachydanio rerio 1.3 mg/L/96h Cyprinus carpio semi-static 10.4 mg/L/96h Cyprinus carpio static</td>
<td>100 mg/L/48h Daphnia magna 1 mg/L/48h Daphnia magna Static</td>
</tr>
<tr>
<td>Cadmium and compounds (as Cd) (CAS #: 7440-43-9)</td>
<td>-</td>
<td>0.003: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.006: 96 h Oncorhynchus mykiss mg/L LC50 static 0.002: 96 h Cyprinus carpio mg/L LC50 static 0.24: 96 h Cyprinus carpio mg/L LC50 semi-static 21.1: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.016: 96 h Orzias latipes mg/L LC50 0.004: 96 h Pimephales promelas mg/L LC50</td>
<td>0.0244: 48 h Daphnia magna mg/L EC50 Static</td>
</tr>
<tr>
<td>Iron (CAS #: 7439-89-6)</td>
<td>-</td>
<td>-</td>
<td>&gt; 100 mg/L/48h (Daphnia magna)</td>
</tr>
</tbody>
</table>

**Persistence and degradability**

No information available

**Bioaccumulative potential**

No information available

**Mobility in soil**

No information available

**Other adverse effects**

No information available

13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

Disposal of wastes
Disposal should be in accordance with applicable regional, national and local laws and regulations

Disposal of contaminated packaging
Dispose of in accordance with federal, state and local regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>RCRA</th>
<th>RCRA - Basis for Listing</th>
<th>RCRA - D Series Wastes</th>
<th>RCRA - U Series Wastes</th>
</tr>
</thead>
</table>

---

**Reproductive toxicity**

No information available

**STOT - single exposure**

No information available

**STOT - repeated exposure**

No information available

**Aspiration hazard**

No information available
14. TRANSPORT INFORMATION

It is considered as non-dangerous good by the ICAO, IATA, IMDG and TDG.

**DOT / IMDG / IATA**

<table>
<thead>
<tr>
<th>UN/ID No.</th>
<th>Proper shipping name</th>
<th>Hazard Class</th>
<th>Packing Group</th>
<th>Special precautions</th>
<th>Marine pollutant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>No information available</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

### International Inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>AICS</th>
<th>DSL/NDSL</th>
<th>EINECS/ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel 7440-02-0 (10-30)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Cadmium and compounds (as Cd) 7440-43-9 (10-30)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Cadmium hydroxide (Cd(OH)2) 21041-95-2 (10-30)</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Nickel hydroxide 12054-48-7 (10-30)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Iron 7439-89-6 (10-30)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

"-" Not Listed  
"X" Listed

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel - 7440-02-0</td>
<td>0.1</td>
</tr>
<tr>
<td>Cadmium and compounds (as Cd) - 7440-43-9</td>
<td>0.1</td>
</tr>
<tr>
<td>Nickel hydroxide - 12054-48-7</td>
<td>0.1</td>
</tr>
</tbody>
</table>

#### SARA 311/312 Hazard Categories

Does not apply

#### CWA (Clean Water Act)
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Cadmium and compounds (as Cd)</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Cadmium hydroxide (Cd(OH)2)</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Nickel hydroxide</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
</tbody>
</table>

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel</td>
<td>100 lb</td>
<td>-</td>
<td>RG 100 lb final RQ</td>
</tr>
<tr>
<td>Cadmium and compounds (as Cd)</td>
<td>10 lb</td>
<td>-</td>
<td>RG 10 lb final RQ</td>
</tr>
<tr>
<td>Nickel hydroxide</td>
<td>10 lb</td>
<td>-</td>
<td>RG 4.54 kg final RQ</td>
</tr>
</tbody>
</table>

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Cadmium and compounds (as Cd)</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Cadmium hydroxide (Cd(OH)2)</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Nickel hydroxide</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Nickel hydroxide</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

**U.S. State Right-to-Know Regulations**

This product may contain substances regulated by state right-to-know regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Cadmium and compounds (as Cd)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Nickel hydroxide</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**16. OTHER INFORMATION**

**Revision Note**

Issue Date 21-Jan-2015
Revision date 21-Jan-2015
Revision Note Not applicable

**Key or legend to abbreviations and acronyms used in the safety data sheet**

TWA - TWA (time-weighted average)
STEL - STEL (Short Term Exposure Limit)
Ceiling - Maximum limit value
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

Disclaimer
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

------- End of Safety Data Sheet -------