SAFETY DATA SHEET
HCS-2012 APPENDIX D TO §1910.1200

Version 1
Product Name: Nickel Cadmium Battery

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 TWA: 1 mg/m³ (vacated) TWA: 1 mg/m³</td>
<td>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: 0.05 mg/m³ TWA: 0.002 mg/m³ Cd except Nickel carbonyl Ni</td>
<td>IDLH: 9 mg/m³ dust and fume IDLH: 9 mg/m³ Cd dust</td>
<td>TWA: 0.005 mg/m³</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 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>-</td>
<td>TWA: 0.05 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

### Chemical Name | Latvia | France | Finland | Germany | Italy |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel (CAS #: 7440-02-0)</td>
<td>TWA: 0.05 mg/m³</td>
<td>TWA: 1 mg/m³</td>
<td>TWA: 1 mg/m³ TWA: 0.1 mg/m³</td>
<td>Skin</td>
<td>-</td>
</tr>
<tr>
<td>Cadmium and compounds (as Cd) (CAS #: 7440-43-9)</td>
<td>TWA: 0.01 mg/m³ STEL: 0.05 mg/m³</td>
<td>TWA: 0.05 mg/m³</td>
<td>TWA: 0.02 mg/m³ Skin</td>
<td>Skin</td>
<td>-</td>
</tr>
<tr>
<td>Nickel hydroxide (CAS #: 12054-48-7)</td>
<td>TWA: 0.05 mg/m³</td>
<td>TWA: 1 mg/m³</td>
<td>TWA: 0.1 mg/m³ Skin</td>
<td>Skin</td>
<td>-</td>
</tr>
</tbody>
</table>

### Chemical Name | Poland | Portugal | Spain | Switzerland | Netherlands |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel (CAS #: 7440-02-0)</td>
<td>TWA: 0.25 mg/m³</td>
<td>TWA: 1.5 mg/m³</td>
<td>TWA: 1 mg/m³</td>
<td>TWA: 0.5 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</td>
<td>TWA: 0.01 mg/m³ TWA: 0.002 mg/m³</td>
<td>TWA: 0.01 mg/m³ TWA: 0.002 mg/m³ Skin</td>
<td>TWA: 0.015 mg/m³</td>
<td>-</td>
</tr>
<tr>
<td>Nickel hydroxide (CAS #: 12054-48-7)</td>
<td>TWA: 0.25 mg/m³</td>
<td>TWA: 0.2 mg/m³</td>
<td>TWA: 0.2 mg/m³</td>
<td>TWA: 0.05 mg/m³</td>
<td>-</td>
</tr>
</tbody>
</table>

### Chemical Name | Norway | United Kingdom | Australia | Austria | Belgium |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel (CAS #: 7440-02-0)</td>
<td>TWA: 0.05 mg/m³ STEL: 1.5 mg/m³ TWA: 0.5 mg/m³</td>
<td>1 mg/m³</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Cadmium and compounds (as Cd) (CAS #: 7440-43-9)
TWA: 0.05 mg/m³
STEL: 0.15 mg/m³
0.01 mg/m³

Cadmium hydroxide (Cd(OH)₂) (CAS #: 21041-95-2)
TWA: 0.05 mg/m³
STEL: 0.075 mg/m³
0.01 mg/m³

Nickel hydroxide (CAS #: 12054-48-7)
TWA: 0.05 mg/m³
STEL: 0.15 mg/m³
TWA: 0.025 mg/m³

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

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>
Reproductive toxicity
No information available

STOT - single exposure
No information available

STOT - repeated exposure
No information available

Aspiration hazard
No information available

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 4.26: 96 h Cyprinus carpio mg/L LC50 semi-static 0.24: 96 h Cyprinus carpio mg/L LC50 static 21.1: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.016: 96 h Oryzias latipes mg/L LC50 0.0004 - 0.003: 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

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>

Page 6/9
14. TRANSPORT INFORMATION

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

The products are not subjects/subject to dangerous.

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 7440-02-0</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>Cadmium and compounds (as Cd) 7440-43-9</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>Cadmium hydroxide (Cd(OH)2) 21041-95-2</td>
<td>-</td>
<td>X</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>Nickel hydroxide 12054-48-7</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 7440-02-0</td>
<td>100 lb</td>
<td>-</td>
<td>RQ 100 lb final RQ</td>
</tr>
<tr>
<td>Cadmium and compounds (as Cd) 7440-43-9</td>
<td>10 lb</td>
<td>-</td>
<td>RQ 10 lb final RQ</td>
</tr>
<tr>
<td>Nickel hydroxide 12054-48-7</td>
<td>10 lb</td>
<td>-</td>
<td>RQ 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 7440-02-0</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Cadmium and compounds (as Cd) 7440-43-9</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Cadmium hydroxide (Cd(OH)2) 21041-95-2</td>
<td>Developmental</td>
</tr>
<tr>
<td>Nickel hydroxide 12054-48-7</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 7440-02-0</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Cadmium and compounds (as Cd) 7440-43-9</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Nickel hydroxide 12054-48-7</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.

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