



Report No.: MN2021TJ0243EU(En)  
Nomination No.: EETP21-008538

## Safety Data Sheet (SDS)

Product Name: Ni-MH AA600mAh 1.2V

Report Version: Prepared according to EU regulation No. 2020/878

Application Company Name: Xinxiang Hengli Power Supply Co., Ltd

Application Company Address: Chenbao Industrial Area, Fengquan District, Xinxiang, Henan

Contract Information: 18530736260

24 Hour Emergency Call: 0373-5418911

Report Edit time: 2022-1-4

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)83071443, or email: CN.Doccheck@sgs.com

*Genan Man*

Editor



*Demi Feng*

Reviewer

2022-1-5



SGS-CSI Standards Technical Services (Tianjin) Co., Ltd.  
Minerals services

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**Safety Data Sheet****Ni-MH AA600mAh 1.2V**

Version: V2.0.0.1

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Creation Date: 2022/01/04

Revision Date: 2022/01/04

\*Prepared according to EU regulation No. 2020/878

**1 Identification of the substance/mixture and of the company/undertaking****Product identifier**

|                                  |                          |
|----------------------------------|--------------------------|
| <b>Product Name</b>              | Ni-MH AA600mAh 1.2V      |
| <b>Model No.</b>                 | See Appendix 1           |
| <b>CAS No.</b>                   | Not applicable           |
| <b>EC No.</b>                    | Not applicable           |
| <b>Molecular Formula</b>         | Not applicable           |
| <b>REACH Registration Number</b> | -                        |
| <b>UFI</b>                       | No information available |

**Relevant identified uses of the substance or mixture and uses advised against**

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Relevant identified uses</b> | Please consult manufacturer. |
| <b>Uses advised against</b>     | Please consult manufacturer. |

**Details of the supplier of the Safety Data Sheet**

|                               |   |
|-------------------------------|---|
| <b>Name of the company</b>    | Xinxiang Hengli Power Supply Co., Ltd                       |
| <b>Address of the company</b> | Chenbao Industrial Area, Fengquan District, Xinxiang, Henan |
| <b>Post code</b>              | —   |
| <b>Telephone number</b>       | 18530736260   |
| <b>Fax number</b>             | 0373-5418711  |
| <b>E-mail address</b>         | 454353760@qq.com  |

**Emergency telephone number**

|                                   |              |
|-----------------------------------|--------------|
| <b>Emergency telephone number</b> | 0373-5418911 |
| <b>Opening hours</b>              | 24h          |

**2 Hazards identification****CLP classification according to Regulation (EC) No. 1272/2008**

The product meets the definition of "article". In the Globally Harmonized Chemical Classification and Labeling System (GHS), the "articles" defined by the US Occupational Safety and Health Administration "Hazard Communication Standard" (29 CFR 1910.1200) or similar definitions do not fall within the scope of this system. [Rev. 8 (2019) Part 1.3.2.1.1].

**GHS Label elements**

|                          |                |
|--------------------------|----------------|
| <b>Hazard pictograms</b> | Not applicable |
| <b>Signal word</b>       | Not applicable |

**Hazard statements**

|                          |                |
|--------------------------|----------------|
| <b>Hazard statements</b> | Not applicable |
|--------------------------|----------------|

**Precautionary statements**

## ◆ Prevention

|                   |                |
|-------------------|----------------|
| <b>Prevention</b> | Not applicable |
|-------------------|----------------|

## ◆ Response

|                 |                |
|-----------------|----------------|
| <b>Response</b> | Not applicable |
|-----------------|----------------|

## ◆ Storage

|                |                |
|----------------|----------------|
| <b>Storage</b> | Not applicable |
|----------------|----------------|

## ◆ Disposal

|                 |                |
|-----------------|----------------|
| <b>Disposal</b> | Not applicable |
|-----------------|----------------|

**Other hazards**

## ◆ Results of PBT and vPvB assessment

| Component          | Results of PBT and vPvB assessment [according to (EC) No 1907/2006] |
|--------------------|---|
| Nickel dihydroxide | Not applicable  |
| Iron oxide         | Not applicable  |
| Sodium hydroxide   | Not applicable  |
| graphite           | Not applicable  |

## ◆ Results of endocrine disrupting properties assessment

|  |  |
|--|--|
| <b>Results of endocrine disrupting properties assessment</b> | Insufficient information, temporarily unable to evaluate |
|--|--|

## ◆ Other

|  |                 |
|--|-----------------|
|  | Not applicable. |
|--|-----------------|

**3 Composition/information on ingredients****Substance/mixture**

|  |         |
|--|---------|
|  | Mixture |
|--|---------|

| Component  | Weight % content (or range) | Classification according to Regulation (EC) No. 1272/2008 [CLP]   | Specific Conc. Limits, M-factors |
|--|-----------------------------|---|----------------------------------|
| <b>Nickel dihydroxide</b><br>CAS: 12054-48-7<br>EC: 235-008-5<br>Index No.: 028-008-00-X | 31.6                        | Acute Toxicity – Oral, Category 4, H302; Skin Corrosion/Irritation, Category 2, H315; Sensitization – Skin, Category 1, H317; Acute Toxicity – Inhalation, Category 4, H332; Sensitization – Respiratory, Category 1, H334; Germ Cell Mutagenicity, Category 2, H341; Specific Target Organ Toxicity (Repeated Exposure), Category 1, H372; Hazardous To The Aquatic Environment – Short-Term | -                                |

|  |      |   |  |
|--|------|---|--|
|  |      | (Acute) Hazard, Category 1, H400; Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard, Category 1, H410; Carcinogenicity, Category 1, H350; Reproductive Toxicity, Category 1, H360 |  |
| <b>Potassium Hydroxide</b><br>CAS: 1310-58-3<br>EC: 215-181-3<br>Index No.: 019-002-00-8         | 20   | Acute Toxicity – Oral, Category 4, H302; Skin Corrosion/Irritation, Category 1A, H314   | H314B:2%≤C<5% H319:0.5%≤C<2% H314A:C≥5% H315:0.5%≤C<2% |
| <b>Water</b><br>CAS: 7732-18-5<br>EC: 231-791-2<br>Index No.: -                                  | 18.3 | Not Classified  | -  |
| <b>Iron oxide</b><br>CAS: 1345-25-1<br>EC: 215-721-8<br>Index No.: -                             | 16.7 | Not Classified  | -  |
| <b>lanthanum, compound with nickel (1:5)</b><br>CAS: 12196-72-4<br>EC: 235-372-5<br>Index No.: - | 8    | Not Classified  | -  |
| <b>Sodium hydroxide</b><br>CAS: 1310-73-2<br>EC: 215-185-5<br>Index No.: 011-002-00-6            | 2.8  | Skin Corrosion/Irritation, Category 1A, H314  | H319:0.5%≤C<2% H315:0.5%≤C<2% H314A:C≥5% H314B:2%≤C<5% |
| <b>graphite</b><br>CAS: 7782-42-5<br>EC: 231-955-3<br>Index No.: -                               | 2.6  | Not Classified  | -  |

## 4 First-aid measures

### Description of first aid measures

|                                   |  |
|-----------------------------------|--|
| <b>General advice</b>             | Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.  |
| <b>Eye contact</b>                | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.                                   |
| <b>Skin contact</b>               | No harm in general situation. First aid is not needed.   |
| <b>Ingestion</b>                  | Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.                                  |
| <b>Inhalation</b>                 | Move victim into fresh air. If breathing is difficult, give oxygen and consult a physician immediately.  |
| <b>Protecting of first-aiders</b> | Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination. |

### Most important symptoms/effects, acute and delayed

- Please see section 11.

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

- Treat symptomatically.
- Symptoms may be delayed.

## 5 Fire-fighting measures

### Extinguishing media

|                                       |  |
|---------------------------------------|--|
| <b>Suitable extinguishing media</b>   | Use extinguishing media suitable for surrounding area.                 |
| <b>Unsuitable extinguishing media</b> | There is no restriction on the type of extinguisher which may be used. |

### Specific hazards arising from the substance or mixture

- 1 Development of hazardous combustion gases or vapor possible in the event of fire.

### Advice for firefighters

- 1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- 1 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment, do not breathe dust/fume.

### Environmental precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

- 1 Cut off the source of the leak as much as possible.
- 2 Keep leaks in a ventilated place.
- 3 Isolation of contaminated areas and restrictions on access.
- 4 It is recommended that emergency personnel wear dust masks.
- 5 Collect the spill with a clean shovel and place it in a clean, dry, loosely closed container and move the container away from the leak.
- 6 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

## 7 Handling and storage

### Precautions for safe handling

#### ◆ Protective measures

- 1 Handling is performed in a well ventilated place.
- 2 Avoid contact with eyes.

#### ◆ Measures to prevent fire

- 1 Keep away from heat/sparks/open flames/ hot surfaces.

◆ Measures to prevent aerosol and dust generation

- 1 Avoid formation of dust and aerosols.
- 2 Provide appropriate exhaust ventilation at places where dust is formed.

◆ Advice on general occupational hygiene

- 1 Wash hands and face after using of the substances.
- 2 Replace the contaminated clothing immediately.

**Conditions for safe storage, including any incompatibilities**

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

**Specific end use(s)**

- 1 In addition to use mentioned in the first parts, unforeseen other specific end uses.

**8 Exposure controls/personal protection**

**Control parameters**

| Component                  | Country/Region    | Limit value - Eight hours |                   | Limit value - Short term |                   |
|----------------------------|-------------------|---------------------------|-------------------|--------------------------|-------------------|
|                            |                   | ppm                       | mg/m <sup>3</sup> | ppm                      | mg/m <sup>3</sup> |
| <b>Nickel dihydroxide</b>  | Spain             | -                         | 0.1               | -                        | -                 |
|                            | France            | -                         | 1                 | -                        | -                 |
| <b>Potassium Hydroxide</b> | USA - NIOSH       | -                         | -                 | -                        | 2                 |
|                            | South Korea       | -                         | -                 | -                        | 2                 |
|                            | Poland            | -                         | 0.5               | -                        | 1                 |
|                            | Ireland           | -                         | -                 | -                        | 2                 |
|                            | Denmark           | -                         | 2                 | -                        | 2                 |
|                            | Australia         | -                         | -                 | -                        | 2                 |
|                            | <b>Iron oxide</b> | USA - OSHA                | -                 | 10                       | -                 |
| United Kingdom             | -                 | 5                         | -                 | 10                       |                   |
| South Korea                | -                 | 5                         | -                 | -                        |                   |
| Ireland                    | -                 | 5                         | -                 | 10                       |                   |
| Denmark                    | -                 | 3.5                       | -                 | 7                        |                   |
| Australia                  | -                 | 5                         | -                 | -                        |                   |
| <b>Sodium hydroxide</b>    | USA - OSHA        | -                         | 2                 | -                        | -                 |
|                            | Sweden            | -                         | 1                 | -                        | 2                 |
|                            | South Korea       | -                         | -                 | -                        | 2                 |
|                            | Ireland           | -                         | -                 | -                        | 2                 |
|                            | Denmark           | -                         | 2                 | -                        | 2                 |
|                            | Australia         | -                         | -                 | -                        | 2                 |

|                 |               |   |       |   |   |
|-----------------|---------------|---|-------|---|---|
| <b>graphite</b> | USA - OSHA    | - | 15    | - | - |
|                 | South Korea   | - | 2     | - | - |
|                 | Ireland       | - | 10    | - | - |
|                 | Germany (DFG) | - | 4     | - | - |
|                 | Denmark       | - | 2.5   | - | 5 |
|                 | Australia     | - | 3 (4) | - | - |

◆ Biological limit values

|                                |                         |
|--------------------------------|-------------------------|
| <b>Biological limit values</b> | No relevant regulations |
|--------------------------------|-------------------------|

◆ Monitoring methods

- EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- GBZ/T 300.1~GBZ/T 300.160-2017; GBZ/T 300.161~GBZ/T 300.164-2018 Determination of toxic substances in workplace air (Series standard).

◆ Derived No effect level (DNEL)

| Component                                    | Route of exposure | DNEL for Workers      |                          |                         |                            |
|--|-------------------|-----------------------|--------------------------|-------------------------|----------------------------|
|  |                   | Acute effects (local) | Acute effects (systemic) | Chronic effects (local) | Chronic effects (systemic) |
| <b>Nickel dihydroxide</b>                    | Inhalation        | No data available     | No data available        | 0.05 mg/m <sup>3</sup>  | 0.05 mg/m <sup>3</sup>     |
|  | Oral              | No data available     | No data available        | No data available       | No data available          |
|  | Dermal            | No data available     | No data available        | No data available       | No data available          |
| <b>Potassium Hydroxide</b>                   | Inhalation        | No data available     | No data available        | 1 mg/m <sup>3</sup>     | No data available          |
|  | Oral              | No data available     | No data available        | No data available       | No data available          |
|  | Dermal            | No data available     | No data available        | No data available       | No data available          |
| <b>Water</b>                                 | Inhalation        | No data available     | No data available        | No data available       | No data available          |
|  | Oral              | No data available     | No data available        | No data available       | No data available          |
|  | Dermal            | No data available     | No data available        | No data available       | No data available          |
| <b>Iron oxide</b>                            | Inhalation        | No data available     | No data available        | 10 mg/m <sup>3</sup>    | 10 mg/m <sup>3</sup>       |
|  | Oral              | No data available     | No data available        | No data available       | No data available          |
|  | Dermal            | No data available     | No data available        | No data available       | No data available          |
| <b>lanthanum, compound with nickel (1:5)</b> | Inhalation        | No data available     | No data available        | No data available       | No data available          |
|  | Oral              | No data available     | No data available        | No data available       | No data available          |
|  | Dermal            | No data available     | No data available        | No data available       | No data available          |
| <b>Sodium hydroxide</b>                      | Inhalation        | No data available     | No data available        | 1 mg/m <sup>3</sup>     | No data available          |
|  | Oral              | No data available     | No data available        | No data available       | No data available          |
|  | Dermal            | No data available     | No data available        | No data available       | No data available          |
| <b>graphite</b>                              | Inhalation        | No data available     | No data available        | 1.2 mg/m <sup>3</sup>   | 10 mg/m <sup>3</sup>       |
|  | Oral              | No data available     | No data available        | No data available       | No data available          |
|  | Dermal            | No data available     | No data available        | No data available       | No data available          |

◆ Predicted No Effect Concentration (PNEC)

|   |                          |
|---|--------------------------|
| <b>Predicted No Effect Concentration (PNEC)</b> | No information available |
|---|--------------------------|

### Engineering controls

|   |  |
|---|--|
| 1 | Ensure adequate ventilation, especially in confined areas.                             |
| 2 | Ensure that eyewash stations and safety showers are close to the workstation location. |
| 3 | Set up emergency exit and necessary risk-elimination area.                             |
| 4 | Handle in accordance with good industrial hygiene and safety practice.                 |

### Personal protection equipment

|                                 |   |
|---------------------------------|---|
| <b>General requirement</b>      | No special requirements, please see the description below.  |
| <b>Eye protection</b>           | In general situation, eye protection is not needed. In the production process, when contacting with vapour or dust, tightly fitting safety goggles.                                       |
| <b>Hand protection</b>          | In general situation, hand protection is not needed.  |
| <b>Respiratory protection</b>   | In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, wear dust proof mask or gas defence mask. |
| <b>Skin and body protection</b> | In general situation, skin and body protection are not needed.  |

## 9 Physical and chemical properties and safety characteristics

### Physical and chemical properties

|  |  |
|--|--|
| <b>Physical state</b>                              | Solid  |
| <b>Colour</b>                                      | Green  |
| <b>Odor</b>  | Odorless   |
| <b>Odor threshold</b>                              | No information available   |
| <b>pH</b>  | No information available   |
| <b>Melting point/freezing point(°C)</b>            | No information available   |
| <b>Initial boiling point and boiling range(°C)</b> | No information available   |
| <b>Flash point(Closed cup,°C)</b>                  | Not applicable   |
| <b>Evaporation rate</b>                            | Not applicable   |
| <b>Flammability</b>                                | Not flammable  |
| <b>Upper/lower explosive limits[% (v/v)]</b>       | Upper limit: No information available; Lower limit: No information available |
| <b>Vapor pressure</b>                              | Not applicable   |
| <b>Vapor density(Air = 1)</b>                      | Not applicable   |
| <b>Relative density(Water=1)</b>                   | No information available   |
| <b>Solubility</b>                                  | Insoluble in water   |
| <b>n-octanol/water partition coefficient</b>       | No information available   |
| <b>Auto-ignition temperature(°C)</b>               | No information available   |
| <b>Decomposition temperature(°C)</b>               | No information available   |
| <b>Viscosity</b>                                   | Not applicable   |



|                                 |                          |
|---------------------------------|--------------------------|
| <b>Explosive properties</b>     | Not explosive            |
| <b>Oxidizing properties</b>     | Not oxidizing            |
| <b>Particle characteristics</b> | No information available |

## 10 Stability and reactivity

### Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | Contact with incompatible substances can cause decomposition or other chemical reactions.   |
| <b>Chemical stability</b>                 | Stable under proper operation and storage conditions.   |
| <b>Possibility of hazardous reactions</b> | React violently with acids, phenols or alcohols. In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. Reacts with active metals and poses an explosive potential or fire. Mixtures with metallic acetylene, when heated, cause a fire or incandescence.   |
| <b>Conditions to avoid</b>                | Incompatible materials, heat, flame and spark.  |
| <b>Incompatible materials</b>             | Acids, phenols, alcohols and nitro substituted hydrocarbon. Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide. Active metal, alcohols, aldehydes, carbon disulfide, carbon, sulfur, phosphorus, boron, reducing agents, metallic acetylenes and metallic carbonates. Metal acetylide, halogen, interhalogen, halogen oxides, nitric acid, nitrous oxide, nitrates, nitrites, halogen oxyacid salts, chromates, permanganates, inorganic peroxides, metal oxides and peroxyformic acid. |
| <b>Hazardous decomposition products</b>   | Under normal conditions of storage and use, hazardous decomposition products should not be produced.  |

## 11 Toxicological information

### Acute toxicity

| Component           | LD <sub>50</sub> (oral) | LD <sub>50</sub> (dermal) | LC <sub>50</sub> (inhalation,4h) |
|---------------------|-------------------------|---------------------------|----------------------------------|
| Nickel dihydroxide  | 1515mg/kg(Rat)          | > 2000mg/kg(Rat)          | 1.2mg/L(Rat)                     |
| Potassium Hydroxide | 273mg/kg(Rat)           | No information available  | No information available         |

### Carcinogenicity

| Component                             | List of carcinogens by the IARC Monographs | Report on Carcinogens by NTP |
|---------------------------------------|--|------------------------------|
| Nickel dihydroxide                    | Category 1                                 | Category K                   |
| Potassium Hydroxide                   | Not Listed                                 | Not Listed                   |
| Water                                 | Not Listed                                 | Not Listed                   |
| Iron oxide                            | Not Listed                                 | Not Listed                   |
| lanthanum, compound with nickel (1:5) | Category 1                                 | Category K                   |
| Sodium hydroxide                      | Not Listed                                 | Not Listed                   |
| graphite                              | Not Listed                                 | Not Listed                   |

**Endocrine disrupting properties**

|  |                          |
|--|--------------------------|
| <b>Endocrine disrupting properties</b> | No information available |
|--|--------------------------|

**Others**

| <b>Ni-MH AA600mAh 1.2V</b>               |  |
|--|--|
| <b>Skin corrosion/irritation</b>         | Based on available data, the classification criteria are not met |
| <b>Serious eye damage/irritation</b>     | Based on available data, the classification criteria are not met |
| <b>Skin sensitization</b>                | Based on available data, the classification criteria are not met |
| <b>Respiratory sensitization</b>         | Based on available data, the classification criteria are not met |
| <b>Reproductive toxicity</b>             | Based on available data, the classification criteria are not met |
| <b>STOT-single exposure</b>              | Based on available data, the classification criteria are not met |
| <b>STOT-repeated exposure</b>            | Based on available data, the classification criteria are not met |
| <b>Aspiration hazard</b>                 | Based on available data, the classification criteria are not met |
| <b>Germ cell mutagenicity</b>            | Based on available data, the classification criteria are not met |
| <b>Reproductive toxicity(additional)</b> | Based on available data, the classification criteria are not met |

**12 Ecological information****Acute aquatic toxicity**

| <b>Component</b>        | <b>Fish</b>                               | <b>Crustaceans</b>                                | <b>Algae</b>             |
|-------------------------|---|---|--------------------------|
| <b>Sodium hydroxide</b> | LC <sub>50</sub> : 196mg/L<br>(96h)(Fish) | EC <sub>50</sub> : 40.4mg/L<br>(48h)(Crustaceans) | No information available |

**Chronic aquatic toxicity**

|                                 |                          |
|---------------------------------|--------------------------|
| <b>Chronic aquatic toxicity</b> | No information available |
|---------------------------------|--------------------------|

**Persistence and degradability**

| <b>Component</b> | <b>Persistence (water/soil)</b> | <b>Persistence (air)</b> |
|------------------|---------------------------------|--------------------------|
| <b>Water</b>     | Low                             | Low                      |
| <b>graphite</b>  | Low                             | Low                      |

**Bioaccumulative potential**

| <b>Component</b> | <b>Bioaccumulative potential</b> | <b>Comments</b> |
|------------------|----------------------------------|-----------------|
| <b>Water</b>     | Low                              | Log Kow=-1.38   |
| <b>graphite</b>  | Low                              | Log Kow=0.5294  |

**Mobility in soil**

| <b>Component</b> | <b>Mobility in soil</b> | <b>Soil Organic Carbon-Water Partitioning Coefficient (Koc)</b> |
|------------------|-------------------------|---|
| <b>Water</b>     | Low                     | 14.3  |
| <b>graphite</b>  | Low                     | 23.74   |

## Results of PBT and vPvB assessment

| Component          | Results of PBT and vPvB assessment [according to (EC) No 1907/2006] |
|--------------------|---|
| Nickel dihydroxide | Not applicable  |
| Iron oxide         | Not applicable  |
| Sodium hydroxide   | Not applicable  |
| graphite           | Not applicable  |

## Endocrine disrupting properties

|                                 |                          |
|---------------------------------|--------------------------|
| Endocrine disrupting properties | No information available |
|---------------------------------|--------------------------|

## 13 Disposal considerations

### Disposal considerations

|                          |  |
|--------------------------|--|
| Waste chemicals          | Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.                       |
| Contaminated packaging   | Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible. |
| Disposal recommendations | Refer to section waste chemicals and contaminated packaging.   |

## 14 Transport information

### Label and Mark

|                    |                |
|--------------------|----------------|
| Transporting Label | Not applicable |
|--------------------|----------------|

### IMDG-CODE

|           |  |
|-----------|--|
| IMDG-CODE | NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS |
|-----------|--|

### IATA-DGR

|          |  |
|----------|--|
| IATA-DGR | NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS |
|----------|--|

### UN-ADR

|        |  |
|--------|--|
| UN-ADR | NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS |
|--------|--|

## 15 Regulatory information

### International chemical inventory

| Component                             | EINECS | TSCA | DSL | IECSC | NZIoC | PICCS | KECI | AIIC | ENCS |
|---------------------------------------|--------|------|-----|-------|-------|-------|------|------|------|
| Nickel dihydroxide                    | √      | √    | √   | √     | √     | √     | √    | √    | √    |
| Potassium Hydroxide                   | √      | √    | √   | √     | √     | √     | √    | √    | √    |
| Water                                 | √      | √    | √   | √     | √     | √     | √    | √    | √    |
| Iron oxide                            | √      | √    | √   | √     | √     | ×     | √    | √    | √    |
| lanthanum, compound with nickel (1:5) | √      | √    | ×   | ×     | ×     | ×     | √    | ×    | ×    |
| Sodium hydroxide                      | √      | √    | √   | √     | √     | √     | √    | √    | √    |

|          |   |   |   |   |   |   |   |   |   |
|----------|---|---|---|---|---|---|---|---|---|
| graphite | √ | √ | √ | √ | √ | √ | √ | √ | × |
|----------|---|---|---|---|---|---|---|---|---|

|          |   |
|----------|---|
| [EINECS] | European Inventory of Existing Commercial Chemical Substances |
| [TSCA]   | United States Toxic Substances Control Act Inventory          |
| [DSL]    | Canadian Domestic Substances List                             |
| [IECSC]  | China Inventory of Existing Chemical Substances               |
| [NZIoC]  | New Zealand Inventory of Chemicals                            |
| [PICCS]  | Philippines Inventory of Chemicals and Chemical Substances    |
| [KECI]   | Korea Existing Chemicals Inventory                            |
| [AIIC]   | Australia. Inventory of Industrial Chemicals (AIIC)           |
| [ENCS]   | Japan Inventory of Existing & New Chemical Substances         |

## European chemical inventory

| Component                             | A | B | C | D | E | F | G |
|---------------------------------------|---|---|---|---|---|---|---|
| Nickel dihydroxide                    | × | × | √ | √ | √ | × | √ |
| Potassium Hydroxide                   | × | × | × | √ | √ | × | × |
| Water                                 | × | × | × | √ | × | × | × |
| Iron oxide                            | × | × | × | √ | √ | × | × |
| lanthanum, compound with nickel (1:5) | × | × | × | √ | × | × | × |
| Sodium hydroxide                      | × | × | × | √ | √ | × | × |
| graphite                              | × | × | × | √ | √ | √ | × |

|     |   |
|-----|---|
| [A] | Candidate list of Substances of Very High Concern for authorization under EU REACH regulation |
| [B] | Substances requiring authorisation under EU REACH regulation                                  |
| [C] | Substances restricted under EU REACH  |
| [D] | Pre-registered substances under EU REACH  |
| [E] | Registered substances under EU REACH  |
| [F] | Substance Evaluation – CoRAP under EU REACH   |
| [G] | List of priority substances under EU water policy (Directive 2455/2001/EC)                    |

Note:

- “√” Indicates that the substance included in the regulations.
- “×” No data or not included in the regulations.

## 16 Other information

### Information on revision

|                     |            |
|---------------------|------------|
| Creation Date       | 2022/01/04 |
| Revision Date       | 2022/01/04 |
| Reason for revision | -          |

### Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.
- [2] IARC, website: <http://www.iarc.fr/>.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: <https://www.echemportal.org/echemportal/substancesearch/index.action>.
- [4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- [5] NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- [6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
- [7] U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- [8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

**| Abbreviations and acronyms**

|                  |                                      |       |   |
|------------------|--------------------------------------|-------|---|
| CAS              | Chemical Abstracts Service           | UN    | The United Nations  |
| PC-STEL          | Short term exposure limit            | OECD  | Organization for Economic Co-operation and Development    |
| PC-TWA           | Time Weighted Average                | IMDG  | International Maritime Dangerous Goods                    |
| MAC              | Maximum Allowable Concentration      | IARC  | International Agency for Research on Cancer               |
| DNEL             | Derived No Effect Level              | ICAO  | International Civil Aviation Organization                 |
| PNEC             | Predicted No Effect Concentration    | IATA  | International Air Transportation Association              |
| NOEC             | No Observed Effect Concentration     | ACGIH | American Conference of Governmental Industrial Hygienists |
| LC <sub>50</sub> | Lethal Concentration 50%             | NFPA  | National Fire Protection Association                      |
| LD <sub>50</sub> | Lethal Dose 50%                      | NTP   | National Toxicology Program                               |
| EC <sub>50</sub> | Effective Concentration 50%          | PBT   | Persistent, Bioaccumulative, Toxic                        |
| EC <sub>x</sub>  | Effective Concentration X%           | vPvB  | very Persistent, very Bioaccumulative                     |
| P <sub>OW</sub>  | Partition coefficient Octanol: Water | CMR   | Carcinogens, mutagens or substances toxic to reproduction |
| BCF              | Bioconcentration factor              | RPE   | Respiratory Protective Equipment                          |
| ED               | Endocrine disruptor                  |       |   |

**| Disclaimer**

This Safety Data Sheet (SDS) was prepared according to REACH Regulation. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

## Appendix 1:

### Same material declaration

This is to certify that the material composition and proportion, supplier, manufacturing process and other parameters of some samples of the complete product submitted by the complete product verification service applied by the company are exactly the same.

The description of samples of the same material in the product or product series is as follows:

Model: Ni-MH AA600mAh 1.2V RECHARGEABLE BATTERY

Model in customer reference:

Ni-MH AA100mAh AA150mAh AA200mAh AA250mAh AA300mAh

AA350mAh AA400mAh AA450mAh AA500mAh AA600mAh

AA700mAh AA800mAh AA900mAh AA1000mAh AA1100mAh

AA1200mAh AA1300mAh AA1400mAh AA1500mAh AA1600mAh

AA1700mAh AA1800mAh AA1900mAh AA2000mAh AA2100mAh

AA2200mAh AA2300mAh AA2400mAh AA2500mAh AA2600mAh

Ni-MH AAA100mAh AAA150mAh AAA200mAh AAA250mAh AAA300mAh

AAA350mAh AAA400mAh AAA450mAh AAA500mAh AAA600mAh

AAA700mAh AAA800mAh AAA900mAh AAA1000mAh AAA1100mAh

Ni-MH 2/3AA100mAh 2/3AA150mAh 2/3AA200mAh 2/3AA250mAh 2/3AA300mAh

2/3AA350mAh 2/3AA400mAh 2/3AA450mAh 2/3AA500mAh 2/3AA550mAh

2/3AA600mAh

Ni-MH 2/3AAA100mAh 2/3AAA150mAh 2/3AAA200mAh 2/3AAA250mAh 2/3AAA300mAh

2/3AAA350mAh 2/3AAA400mAh 2/3AAA450mAh 2/3AAA500mAh 2/3AAA600mAh

Ni-MH 4/5AA100mAh 4/5AA200mAh 4/5AA300mAh 4/5AA350mAh 4/5AA400mAh 4/5AA500mAh 4/5AA600mAh  
4/5AA700mAh 4/5AA800mAh 4/5AA900mAh 4/5AA1000mAh

4/5AA1100mAh 4/5AA1200mAh 4/5AA1300mAh 4/5AA1400mAh 4/5AA1500mAh 4/5AA1600mAh 4/5AA1700mAh  
4/5AA1800mAh 4/5AA1900mAh

Ni-MH 4/5SC600 4/5SC700 4/5SC800 4/5SC900 4/5SC1000 4/5SC1100 4/5SC1200 4/5SC1300 4/5SC1400 4/5SC1500  
4/5SC1600 4/5SC1700 4/5SC1800 4/5SC1900 4/5SC2000

Ni-MH SC600mAh SC700mAh SC800mAh SC900mAh SC1000mAh SC1100mAh SC1200mAh

SC1300mAh SC1400mAh SC1500mAh SC1600mAh SC1700mAh SC1800mAh SC1900mAh SC2000mAh SC2200mAh

SC2400mAh SC2600mAh SC2800mAh SC3000mAh

Ni-MH C2000mAh C2500mAh C3000mAh C3500mAh C4000mAh

Ni-MH D3500mAh D4000mAh D5000mAh D6000mAh D7000mAh D8000mAh D10000mAh

It is hereby declared that the material of the model in the customer's reference information is exactly the same as that of the actual test model, The company is willing to bear all legal responsibilities if there are forged materials or false information.

Xinxiang Hengli Power Supply Co., Ltd.

新乡市恒力电源有限公司

Xinxiang Hengli Power Supply Co., Ltd

2022.01.04