



Report No.: MN2021TJ0250EU(En)2/4  
Nomination No.: EETP21-008863

## Safety Data Sheet (SDS)

Product Name: Ni-MH Battery

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

Application Company Name: HENAN TROILY NEW ENERGY TECHNOLOGY CO.,LTD.

Application Company Address: Industrial cluster district of Yudong , Xinxiang City , Henan Province P.R.China

Contract Information: 18437325083

**24 Hour Emergency Call:** 0373-7722669

Report Edit time: 2022-1-4

*Gara Man*

Editor



*Demi Feng*

Reviewer

2022-1-6

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**Safety Data Sheet****Ni-MH Battery**

Version: V2.0.0.1

Report No.: MN2021TJ0250EU(En)2/4

Nomination No: EETP21-008863

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 Battery
<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>	Industrial applications.
<b>Uses advised against</b>	No special instructions.

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

<b>Name of the company</b>	HENAN TROILY NEW ENERGY TECHNOLOGY CO.,LTD.
<b>Address of the company</b>	Industrial cluster district of Yudong , Xinxiang City , Henan Province P.R.China
<b>Post code</b>	—
<b>Telephone number</b>	18437325083
<b>Fax number</b>	0373-7722185
<b>E-mail address</b>	3396912077@qq.com

**Emergency telephone number**

<b>Emergency telephone number</b>	0373-7722669
<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**

Hazard statements	Not applicable
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**Precautionary statements**

## ◆ Prevention

Prevention	Not applicable
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## ◆ Response

Response	Not applicable
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## ◆ Storage

Storage	Not applicable
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## ◆ Disposal

Disposal	Not applicable
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**Other hazards**

## ◆ Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Iron	Not applicable
Nickel atom	Not applicable
Nickel Hydroxide	Not applicable
Cobalt oxide	Not applicable

## ◆ Results of endocrine disrupting properties assessment

Results of endocrine disrupting properties assessment	Insufficient information, temporarily unable to evaluate
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## ◆ Other

Other	Not applicable.
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**3 Composition/information on ingredients****Substance/mixture**

Substance/mixture	Mixture
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Component	Weight % content (or range)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific Conc. Limits, M-factors
<b>Iron</b> CAS: 7439-89-6 EC: 231-096-4 Index No.: -	35.89	Not Classified	-
<b>Nickel atom</b> CAS: 7440-02-0 EC: 231-111-4 Index No.: 028-002-01-4	22.02	Sensitization – Skin, Category 1, H317; Carcinogenicity, Category 2, H351; Specific Target Organ Toxicity (Repeated Exposure), Category 1, H372; Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard, Category 3, H412	-

<b>Nickel Hydroxide</b> CAS: 12054-48-7 EC: 235-008-5 Index No.: 028-008-00-X	13.1	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>Metal Hydroxide Alloy</b> CAS: 12196-72-4 EC: 235-372-5 Index No.: -	Commercial secrets	Not Classified	-
<b>polypropylene</b> CAS: 9003-07-0 EC: 618-352-4 Index No.: -	6.61	Not Classified	-
<b>polyvinyl chloride</b> CAS: 9002-86-2 EC: 618-338-8 Index No.: -	5.5	Not Classified	-
<b>Water</b> CAS: 7732-18-5 EC: 231-791-2 Index No.: -	4.4	Not Classified	-
<b>Potassium hydroxide</b> CAS: 1310-58-3 EC: 215-181-3 Index No.: 019-002-00-8	Commercial secrets	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>Cobalt oxide</b> CAS: 1307-96-6 EC: 215-154-6 Index No.: 027-002-00-4	Commercial secrets	Acute Toxicity – Oral, Category 4, H302; Sensitization – Skin, Category 1, H317; Hazardous To The Aquatic Environment – Short-Term (Acute) Hazard, Category 1, H400; Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard, Category 1, H410	M=10
<b>Lithium hydroxide monohydrate</b> CAS: 1310-66-3 EC: 603-454-3 Index No.: -	0.04	Acute Toxicity – Oral, Category 4, H302; Skin Corrosion/Irritation, Category 1B, H314; Eye Damage/Irritation, Category 1, H318	-

## 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>	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel

	uncomfortable.
<b>Ingestion</b>	Do not induce vomiting. 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. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration 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

- 1 Please see section 11.

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

- 1 Treat symptomatically.
- 2 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.
- 2 May expansion or decompose explosively when heated or involved in 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 Wear suitable protective equipment.
- 3 Avoid contact with skin and 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>
Nickel atom	USA - OSHA	-	1	-	-
	South Korea	-	1	-	-
	Ireland	-	0.5	-	-
	Hungary	-	0.1	-	0.1
	Denmark	-	0.05	-	0.1
	Australia	-	1	-	-
Nickel Hydroxide	Spain	-	0.1	-	-
	France	-	1	-	-
polyvinyl chloride	Switzerland	-	3	-	-

	Sweden	-	1	-	-
	Latvia	-	5	-	-
	Ireland	-	10	-	-
	Germany (DFG)	-	1.5	-	-
	Belgium	-	10	-	-
<b>Potassium hydroxide</b>	USA - NIOSH	-	-	-	2
	South Korea	-	-	-	2
	Poland	-	0.5	-	1
	Ireland	-	-	-	2
	Denmark	-	2	-	2
	Australia	-	-	-	2
<b>Cobalt oxide</b>	Latvia	-	0.5	-	-
<b>Lithium hydroxide monohydrate</b>	Canada - Ontario	-	1	-	-

◆ Biological limit values

<b>Biological limit values</b>	No relevant regulations
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◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	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>Iron</b>	Inhalation	No data available	No data available	3 mg/m <sup>3</sup>	No data available
<b>Nickel atom</b>	Inhalation	No data available	No data available	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>
<b>Nickel Hydroxide</b>	Inhalation	No data available	No data available	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>
<b>Potassium hydroxide</b>	Inhalation	No data available	No data available	1 mg/m <sup>3</sup>	No data available
<b>Cobalt oxide</b>	Inhalation	No data available	No data available	0.0509 mg/m <sup>3</sup>	No data available
<b>Lithium hydroxide monohydrate</b>	Inhalation	No data available	No data available	No data available	10 mg/m <sup>3</sup>

◆ Predicted No Effect Concentration (PNEC)

<b>Predicted No Effect Concentration (PNEC)</b>	No information available
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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>	Odourless
<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>	No information available
<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>	No information available
<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</b>	Reacts severely with halogens, interhalogens or other strong oxidants, or causes



<b>reactions</b>	a fire. In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. React violently with acids, phenols or alcohols.
<b>Conditions to avoid</b>	Incompatible materials, heat, flame and spark.
<b>Incompatible materials</b>	Halogen, interhalogen, strong oxidant, water and acids. Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide. Acids, phenols, alcohols and nitro substituted hydrocarbon.
<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 Hydroxide	1515mg/kg(Rat)	> 2000mg/kg(Rat)	1.2mg/L(Rat)
Potassium hydroxide	273mg/kg(Rat)	No information available	No information available
Cobalt oxide	202mg/kg(Rat)	No information available	No information available
Iron	30000mg/kg(Rat)	No information available	No information available

### Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Iron	Not Listed	Not Listed
Nickel atom	Category 2B	Category R
Nickel Hydroxide	Category 1	Category K
Metal Hydroxide Alloy	Category 1	Category K
polypropylene	Category 3	Not Listed
polyvinyl chloride	Category 3	Not Listed
Water	Not Listed	Not Listed
Potassium hydroxide	Not Listed	Not Listed
Cobalt oxide	Category 2B	Category R
Lithium hydroxide monohydrate	Not Listed	Not Listed

### Endocrine disrupting properties

<b>Endocrine disrupting properties</b>	No information available
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### Others

Ni-MH Battery	
<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

Component	Fish	Crustaceans	Algae
<b>Nickel atom</b>	LC <sub>50</sub> : 40mg/L (96h)(Fish)	EC <sub>50</sub> : 1mg/L (48h)(Crustaceans)	No information available
<b>Iron</b>	LC <sub>50</sub> : 1.29mg/L (96h)(Fish)	No information available	No information available

### Chronic aquatic toxicity

<b>Chronic aquatic toxicity</b>	No information available
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### Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
<b>Nickel atom</b>	Low	Low
<b>polypropylene</b>	Low	Low
<b>Water</b>	Low	Low

### Bioaccumulative potential

Component	Bioaccumulative potential	Comments
<b>Nickel atom</b>	Low	Log Kow=-1.38
<b>polypropylene</b>	Low	Log Kow=1.6783
<b>Water</b>	Low	Log Kow=-1.38

### Mobility in soil

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

### Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
<b>Iron</b>	Not applicable

Nickel atom	Not applicable
Nickel Hydroxide	Not applicable
Cobalt oxide	Not applicable

### Endocrine disrupting properties

Endocrine disrupting properties	No information available
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## 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
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### IMDG-CODE

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS (According to the Special Provisions 963, The goods are not subject to IMO IMDG Code. When packaged for transport, the cells or batteries shall be protected from short circuit)
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### IATA-DGR

IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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## 15 Regulatory information

### International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIIC	ENCS
Iron	√	√	√	√	√	√	√	√	√
Nickel atom	√	√	√	√	√	√	√	√	√
Nickel Hydroxide	√	√	√	√	√	√	√	√	√
Metal Hydroxide Alloy	√	√	×	×	×	×	√	×	×
polypropylene	×	√	√	√	√	√	√	√	√
polyvinyl chloride	×	√	√	√	√	√	√	√	√
Water	√	√	√	√	√	√	√	√	√

<b>Potassium hydroxide</b>	√	√	√	√	√	√	√	√	√
<b>Cobalt oxide</b>	√	√	√	√	√	√	√	√	√
<b>Lithium hydroxide monohydrate</b>	×	×	×	√	√	√	×	√	×

[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
<b>Iron</b>	×	×	×	√	√	×	×
<b>Nickel atom</b>	×	×	√	√	√	×	√
<b>Nickel Hydroxide</b>	×	×	√	√	√	×	√
<b>Metal Hydroxide Alloy</b>	×	×	×	√	×	×	×
<b>polypropylene</b>	×	×	×	√	×	×	×
<b>polyvinyl chloride</b>	×	×	×	√	×	×	×
<b>Water</b>	×	×	×	√	×	×	×
<b>Potassium hydroxide</b>	×	×	×	√	√	×	×
<b>Cobalt oxide</b>	×	×	×	√	√	×	×
<b>Lithium hydroxide monohydrate</b>	×	×	×	√	×	×	×

[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

<b>Creation Date</b>	2022/01/04
<b>Revision Date</b>	2022/01/04
<b>Reason for revision</b>	-

### 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:

#### Ni-MH Cylindrical Rechargeable Battery:

AA50mAh, AA80mAh, AA100mAh, AA150mAh, AA200mAh, AA250mAh, AA300mAh, AA330mAh, AA350mAh, AA400mAh, AA450mAh, AA500mAh, AA550mAh, AA600mAh, AA650mAh, AA700mAh, AA750mAh, AA800mAh, AA850mAh, AA900mAh, AA950mAh, AA1000mAh, AA1100mAh, AA1200mAh, AA1300mAh, AA1400mAh, AA1500mAh, AA1600mAh, AA1700mAh, AA1800mAh, AA1900mAh, AA2000mAh, AA2100mAh, AA2200mAh, AA2300mAh, AA2400mAh, AA2500mAh, AA2600mAh, AA2700mAh, AA2800mAh, AA2900mAh, AA3000mAh etc

AAA80mAh, AAA100mAh, AAA150mAh, AAA200mAh, AAA250mAh, AAA300mAh, AAA330mAh, AAA350mAh, AAA400mAh, AAA450mAh, AAA500mAh, AAA550mAh, AAA600mAh, AAA650mAh, AAA700mAh, AAA750mAh, AAA800mAh, AAA900mAh, AAA1000mAh, AAA1100mAh, AAA1200mAh, AAA1300mAh, AAA1400mAh, AAA1500mAh.etc

1/3AAA50mAh, 1/3AAA60mAh, 1/3AAA70mAh, 1/3AAA80mAh, 1/3AAA85mAh, 1/3AAA90mAh, 1/3AAA100mAh, 1/3AAA110mAh, 1/3AAA120mAh, 1/3AAA150mAh, 1/3AAA180mAh etc

1/4AAA50mAh, 1/4AAA60mAh, 1/4AAA80mAh etc

2/3AAA80mAh, 2/3AAA100mAh, 2/3AAA130mAh, 2/3AAA120mAh, 2/3AAA150mAh, 2/3AAA180mAh, 2/3AAA200mAh, 2/3AAA250mAh, 2/3AAA300mAh, 2/3AAA350mAh, 2/3AAA400mAh.etc

2/3AA80mAh, 2/3AA100mAh, 2/3AA120mAh, 2/3AA150mAh, 2/3AA180mAh, 2/3AA200mAh, 2/3AA250mAh, 2/3AA300mAh, 2/3AA350mAh, 2/3AA400mAh, 2/3AA450mAh, 2/3AA500mAh, 2/3AA150mAh, 2/3AA600mAh, 2/3AA700mAh, 2/3AA800mAh, 2/3AA900mAh, 2/3AA1000mAh etc

1/3AA50mAh, 1/3AA60mAh, 1/3AA80mAh, 1/3AA100mAh, 1/3AA120mAh, 1/3AA150mAh, 1/3AA180mAh, 1/3AA200mAh, 1/3AA250mAh, 1/3AA300mAh, 1/3AA350mAh etc

(1.2V 2.4V 3.6V 4.8V 6.0V 7.2V 8.4V 9.6V 10.8V 12V 13.2V 14.4V 15.6V) etc

#### Ni-MH Button Rechargeable Battery:

10mAh/20mAh/30mAh/40mAh/50mAh/60mAh/70mAh/80mAh/100mAh/110mAh/120mAh/160mAh/250mAh/300mAh/330mAh/350mAh/400mAh/500mAh/600mAh/650mAh/700mAh/800mAh/900mAh/1000mAh.etc

(1.2V 2.4V 3.6V 4.8V 6.0V 7.2V 8.4V 9.6V 10.8V 12V) etc

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.

HENAN TROILY NEW ENERGY TECHNOLOGY CO.,LTD.

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