

SDS Service Summary

No. SHAEC22005206102

Date: 5 Jan 2023

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SGS Job No. : TP22-010339
Applicant : HENAN TROILY NEW ENERGY TECHNOLOGY CO.,LTD
Product Name : Ni-MH Battery
Client Reference Information : See Remark
Composition/Ingredient of product (as per applicant submission) : See section 3 Composition/information on ingredients on the SDS
Job Receiving Date : 26 Dec 2022
Last Information Date : 03 Jan 2023
SDS Preparation Period : 26 Dec 2022-04 Jan 2023

Service Requested : Preparation of Safety Data Sheet (SDS) for the product with submitted information, with calculation of the classification and labeling requirement according to the submitted composition and US Hazard Communication Standard 29 CFR 1910.1200.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with US Hazard Communication Standard 29 CFR 1910.1200, and is provided per attached.

Disclaimer

This Safety Data Sheet (SDS) is provided to applicant to fulfill US Hazard Communication Standard 29 CFR 1910.1200 and communicate the hazard information of chemicals through the supply chain to ensure safe use. It is not a test report or a certificate ensuring the safety of a product. SGS has consolidated product information based on documents provided by Applicant (i.e. product name, the supplier details, product composition, available physical data, etc) without independent verification from SGS. The information is provided without any warranty, express or implied, regarding its correctness.



Cathy Cai
Project Engineer

Remark:

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, AA3600mAh 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
 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/230mAh/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

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29 CFR 1910.1200

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Reviewed on 01/03/2023

1 Identification

- **Product identifier**
- **Trade name:** Ni-MH Battery
- **Recommended use of the chemical and restrictions on use**
- **Application of the substance / the preparation:** Industrial Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
HENAN TROILY NEW ENERGY TECHNOLOGY CO.,LTD
Industrial cluster district of Yudong , Xinxiang City , Henan Province
Tel: 18437325083
E-mail: 3396912077@qq.com
- **Other US contact point:** Not available
- **Further information obtainable from:** HENAN TROILY NEW ENERGY TECHNOLOGY CO.,LTD
- **Emergency telephone number:**
USA
Poison Center
Tel: +1 800 222 1222
- **Reference Number:** TP22-010339; SHAEC22005206102
- **Remark:**
This product is likely to be classified as article and is out of scope of a SDS as set out in 29 CFR Part 1910.1200. This SDS is generated for applicant's reference only.

2 Hazard(s) identification

- **Classification of the substance or mixture**
Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)
- 
GHS08 Health hazard

Sensitization - Respiratory 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ Cell Mutagenicity 2	H341 Suspected of causing genetic defects.
Carcinogenicity 1A	H350 May cause cancer.
Toxic to Reproduction 1B	H360 May damage fertility or the unborn child.
Specific Target Organ Toxicity - Repeated Exposure 1	H372 Causes damage to organs through prolonged or repeated exposure.
- 
GHS07

Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
- **Information concerning particular hazards for human and environment:**
The product has to be labeled due to the calculation procedure of OSHA Hazard Communication Standard (29 CFR 1910.1200).
- **Classification system:**
The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.
- **Label elements**
- **Labelling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**

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· **Hazard pictograms**



GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

nickel dihydroxide

nickel

lanthanum, compound with nickel (1:5)

cobalt oxide

· **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 [In case of inadequate ventilation] wear respiratory protection.

P302+P352 If on skin: Wash with plenty of water.

P304+P341 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P314 Get medical advice/attention if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Hazards not otherwise classified (HNOC)** No further relevant information available.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:**

Mixture of the substances listed below with nonhazardous additions.

For the wording of the listed hazard statements refer to section 16.

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· Composition:		
7439-89-6	iron	35.89-50.5%
7440-02-0	nickel ⚠ Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 1, H372; ⚠ Sensitization - Skin 1, H317	22.02-26.32%
12054-48-7	nickel dihydroxide ⚠ Sensitization - Respiratory 1, H334; Germ Cell Mutagenicity 2, H341; Carcinogenicity 1A, H350; Toxic to Reproduction 1B, H360; Specific Target Organ Toxicity - Repeated Exposure 1, H372; ⚠ Acute Toxicity - Oral 4, H302; Acute Toxicity - Inhalation 4, H332; Skin Irritation 2, H315; Sensitization - Skin 1, H317	7.8-13.1%
12196-72-4	lanthanum, compound with nickel (1:5) ⚠ Substances and mixtures which, in contact with water, emit flammable gases 1, H260; ⚠ Carcinogenicity 1A, H350; Specific Target Organ Toxicity - Repeated Exposure 1, H372; ⚠ Sensitization - Skin 1, H317	4.96-9.8%
9003-07-0	Polypropylene	5.3-6.61%
9002-86-2	Polyvinyl chloride	4.3-5.5%
7732-18-5	Water	0.56-4.4%
1310-58-3	potassium hydroxide ⚠ Skin Corrosion 1A, H314; ⚠ Acute Toxicity - Oral 4, H302	0.21-2.2%
1307-96-6	cobalt oxide ⚠ Carcinogenicity 2, H351; ⚠ Acute Toxicity - Oral 4, H302; Sensitization - Skin 1, H317	0.04-0.44%
1310-66-3	Lithium hydroxide monohydrate ⚠ Skin Corrosion 1B, H314; Eye Damage 1, H318; ⚠ Acute Toxicity - Oral 4, H302	0.01-0.04%

· **Remark:**

The safety data sheet (SDS) is created in accordance with the provided chemical composition. The ingredient information of product is confidential as a trade secret. Details on the chemical composition of the formulation can be provided from the formulation owner and/or the chemical supplier(s) upon request.

4 First-aid measures

· **Description of first aid measures**· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.· **After swallowing:** Drink copious amounts of water and provide fresh air. Immediately call a doctor.· **Most important symptoms and effects, both acute and delayed** No further relevant information available.· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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5 Fire-fighting measures

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **Special protective equipment and precautions for firefighters**
- **Protective equipment:**
Mouth respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Avoid formation of dust.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Keep away from ignition sources
Avoid contact with eyes.
Avoid contact with skin.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Precautions for safe handling:**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Keep receptacles tightly sealed.
Open and handle receptacle with care.
Keep away from heat and direct sunlight.
Prevent short cut and movement which could lead to short circuits.
Do not short circuit, puncture or crush.
Avoid contact with skin and eyes.
For the general occupational hygienic measures refer to section 8.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Store only in the original receptacle.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from water.

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Store away from ignition source.
Do not store together with oxidizing and acidic materials.
· **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

· Components with limit values that require monitoring at the workplace:

7440-02-0 nickel

PEL (USA)	Long-term value: 1 mg/m ³
REL (USA)	Long-term value: 0.015 mg/m ³ as Ni; See Pocket Guide App. A
TLV (USA)	Long-term value: 1.5* mg/m ³ elemental, *inhalable fraction, A5, BEI

12054-48-7 nickel dihydroxide

PEL (USA)	Long-term value: 1 mg/m ³ as Ni
REL (USA)	Long-term value: 0.015 mg/m ³ as Ni; See Pocket Guide App. A

9002-86-2 Polyvinyl chloride

TLV (USA)	Long-term value: 1* mg/m ³ *as respirable fraction, A4
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1310-58-3 potassium hydroxide

REL (USA)	Ceiling limit value: 2 mg/m ³
TLV (USA)	Ceiling limit value: 2 mg/m ³

1307-96-6 cobalt oxide

PEL (USA)	Long-term value: 0.1* mg/m ³ as Co; *for metal dust and fume
REL (USA)	Long-term value: 0.05 mg/m ³ as Co; metal dust & fume
TLV (USA)	Long-term value: 0.02* mg/m ³ as Co, A3; *inhalable; DSEN; RSEN; BEI

· Regulatory information

PEL (USA): Guide to Occupational Exposure Values (OSHA PELs)
REL (USA): Guide to Occupational Exposure Values (NIOSH RELs)
TLV (USA): Guide to Occupational Exposure Values (TLV)

· Ingredients with biological limit values:

7440-02-0 nickel

BEI (USA)	5 µg/L Medium: urine Time: post-shift at end of workweek Parameter: Nickel (background)
	30 µg/L Medium: urine Time: post-shift at end of workweek Parameter: Nickel (background)

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1307-96-6 cobalt oxide

BEI (USA)	15 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Cobalt (nonspecific)
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- **Additional information:** The lists that were valid during the creation were used as basis.
- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure:**
- **Appropriate engineering controls:**
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - Store protective clothing separately.
 - Avoid contact with the eyes and skin.
 - See Section 7 for information about design of technical facilities.
- **Personal protective equipment:**
- **Breathing equipment:**
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

- **General Information**
- **Appearance:**

Form:	Solid
Color:	Silver
- **Odor:** Odorless
- **Odor threshold:** Not available
- **pH-value:** Not available
- **Melting point/Melting range:** Not available

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· Freezing point:	Not available
· Boiling point/Boiling range:	Not available
· Flash point:	Not available
· Flammability (solid, gaseous):	Not available.
· Auto-Ignition temperature:	Not available
· Decomposition temperature:	Not available
· Explosion limits:	
Lower:	Not available.
Upper:	Not available.
· Vapor pressure:	Not available
· Density:	Not available.
· Relative density	Not available.
· Vapor density	Not available
· Evaporation rate	Not available
· Solubility in / Miscibility with Water:	Not available
· Partition coefficient (n-octanol/water):	Not available
· Viscosity:	
Dynamic:	Not available
Kinematic:	Not available
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No decomposition if used according to specification.
- **Chemical stability** Stable under recommended storage conditions.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

7439-89-6 iron

Oral	LD50	30,000 mg/kg (rat)
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- **Skin corrosion/irritation:** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation:** Irritating effect.
- **Respiratory or skin sensitisation:**
Sensitization possible through inhalation.
Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Carcinogenic.

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*Harmful**Irritant**The product is suspected to cause damage the unborn children**Product is suspected to cause birth defects.**Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.***· Carcinogenic categories****· IARC (International Agency for Research on Cancer)**

7440-02-0	nickel	2B
12054-48-7	nickel dihydroxide	1
12196-72-4	lanthanum, compound with nickel (1:5)	1
9003-07-0	Polypropylene	3
9002-86-2	Polyvinyl chloride	3
1307-96-6	cobalt oxide	2B

· NTP (National Toxicology Program)

7440-02-0	nickel	R
12054-48-7	nickel dihydroxide	K
12196-72-4	lanthanum, compound with nickel (1:5)	K

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information**· Toxicity***· Aquatic toxicity: No further relevant information available.**· Persistence and degradability No further relevant information available.**· Bioaccumulative potential No further relevant information available.**· Mobility in soil No further relevant information available.**· Other adverse effects No further relevant information available.***13 Disposal considerations****· Waste treatment methods****· Recommendation:***Must not be disposed of together with household garbage. Do not allow product to reach sewage system.***· Uncleaned packagings:***· Recommendation: Disposal must be made according to official regulations.***14 Transport information****· UN-Number****· DOT, IMDG**

UN3496

· IATA

Not applicable

· UN proper shipping name**· DOT**

Batteries, nickel-metal hydride

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<ul style="list-style-type: none"> · IMDG · IATA 	<p>Batteries, nickel-metal hydride (nickel dihydroxide, cobalt oxide), MARINE POLLUTANT</p> <p>Not applicable</p>
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- **Transport hazard class(es)**
- **DOT, IMDG**



<ul style="list-style-type: none"> · Class · Label 	<p>9 Miscellaneous dangerous substances and articles</p> <p>9</p>
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<ul style="list-style-type: none"> · IATA · Class · Label 	<p>Not applicable</p> <p>Not applicable</p>
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<ul style="list-style-type: none"> · Packing group · DOT, IMDG, IATA 	<p>Not applicable</p>
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<ul style="list-style-type: none"> · Environmental hazards · Marine pollutant: 	<p>Product contains environmentally hazardous substances: nickel dihydroxide</p> <p>Yes (DOT)</p> <p>Symbol (fish and tree)</p>
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<ul style="list-style-type: none"> · Special precautions for user · EMS Number: · Stowage Category · Stowage Code 	<p>Not applicable.</p> <p>F-A,S-I</p> <p>A</p> <p>SWI Protected from sources of heat.</p>
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<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	<p>Not applicable.</p>
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<ul style="list-style-type: none"> · Transport/Additional information: 	<p>Referring to the Certification for Safe Transport of Goods (Report No. MQI814RG2374767U1) issued by Pony Testing International Group, Ni-MH Battery AA is not subject to IMO IMDG Code according to the Special Provisions 963 (upon supplier's information). When packaged for transport, the cells or batteries shall be protected from short circuit.</p>
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Referring to the Certification for Safe Transport of Goods (Report No. MQI814RG2374807U1) issued by Pony Testing International Group, Ni-MH Battery 40mAh is not subject to IATA DGR according to the Special Provisions A199 of DGR (upon supplier's information). When packaged for transport, the terminals must be protected from short circuit and accidental star-up.

<ul style="list-style-type: none"> · DOT · Remarks: 	<p>Special marking with the symbol (fish and tree).</p>
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<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	<p>0</p> <p>Code: E0</p> <p>Not permitted as Excepted Quantity</p>
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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

7440-02-0	nickel
12054-48-7	nickel dihydroxide
12196-72-4	lanthanum, compound with nickel (1:5)
1307-96-6	cobalt oxide

· TSCA (Toxic Substances Control Act):

7439-89-6	iron	ACTIVE
7440-02-0	nickel	ACTIVE
12054-48-7	nickel dihydroxide	ACTIVE
12196-72-4	lanthanum, compound with nickel (1:5)	ACTIVE
9003-07-0	Polypropylene	ACTIVE
9002-86-2	Polyvinyl chloride	ACTIVE
7732-18-5	Water	ACTIVE
1310-58-3	potassium hydroxide	ACTIVE
1307-96-6	cobalt oxide	ACTIVE

· Proposition 65

· Chemicals known to cause cancer:

7440-02-0	nickel
12054-48-7	nickel dihydroxide
12196-72-4	lanthanum, compound with nickel (1:5)
1307-96-6	cobalt oxide

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

12054-48-7	nickel dihydroxide
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· Chemicals known to cause developmental toxicity:

12054-48-7	nickel dihydroxide
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· New Jersey Right-to-Know List:

7440-02-0	nickel
12054-48-7	nickel dihydroxide
9002-86-2	Polyvinyl chloride
1310-58-3	potassium hydroxide
1310-66-3	Lithium hydroxide monohydrate

· New Jersey Special Hazardous Substance List:

7440-02-0	nickel	CA
12054-48-7	nickel dihydroxide	CA
1310-58-3	potassium hydroxide	CO, RI
1310-66-3	Lithium hydroxide monohydrate	CO, RI

· Pennsylvania Right-to-Know List:

7440-02-0	nickel
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12054-48-7	nickel dihydroxide	
1310-58-3	potassium hydroxide	
· Pennsylvania Special Hazardous Substance List:		
7440-02-0	nickel	ES
12054-48-7	nickel dihydroxide	E
1310-58-3	potassium hydroxide	E
· Cancerogenity categories		
· EPA (Environmental Protection Agency)		
None of the ingredients is listed.		
· TLV (Threshold Limit Value)		
7440-02-0	nickel	A5
12054-48-7	nickel dihydroxide	A1
9002-86-2	Polyvinyl chloride	A4
1307-96-6	cobalt oxide	A3
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
7440-02-0	nickel	
12054-48-7	nickel dihydroxide	
12196-72-4	lanthanum, compound with nickel (1:5)	

16 Other information

· Relevant hazard statements

H260 In contact with water releases flammable gases, which may ignite spontaneously.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

The contents and format of this SDS are in accordance with 29 CFR 1910.1200.

DISCLAIMER OF LIABILITY

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· Date of preparation / last revision 01/05/2023

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

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Safety Data Sheet

29 CFR 1910.1200

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Trade name: Ni-MH Battery

(Contd. of page 11)

ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 Substances and mixtures which, in contact with water, emit flammable gases 1: Substances and mixtures which in contact with water emit flammable gases – Category 1
 Acute Toxicity - Oral 4: Acute toxicity – Category 4
 Skin Corrosion 1A: Skin corrosion/irritation – Category 1A
 Skin Corrosion 1B: Skin corrosion/irritation – Category 1B
 Skin Irritation 2: Skin corrosion/irritation – Category 2
 Eye Damage 1: Serious eye damage/eye irritation – Category 1
 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
 Sensitization - Respiratory 1: Respiratory sensitisation – Category 1
 Sensitization - Skin 1: Skin sensitisation – Category 1
 Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2
 Carcinogenicity 1A: Carcinogenicity – Category 1A
 Carcinogenicity 2: Carcinogenicity – Category 2
 Toxic to Reproduction 1B: Reproductive toxicity – Category 1B
 Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1
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End of document