

SDS Report

No.: CANEC1826990003

Date: 07 Jan 2019

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SHENZHEN HIGHPOWER TECHNOLOGY CO., LTD
BUILDING 1, NO.68 XINXIA ROAD, PINGHU STREET, LONGGANG DISTRICT, SHENZHEN CITY, GUANGDONG
PROVINCE, P.R.CHINA

SGS Job No. : CP18-069609 - SZ
Sample Name : Nickel metal hydride battery
Manufacturer : SHENZHEN HIGHPOWER TECHNOLOGY CO., LTD
Country of Origin : CHINA
Country of Destination : EUROPEAN AMERICA
End Uses : Used as DC power of personal care, vacuum cleaner, lighting electrical tool, digital products and so on.
Composition/Ingredient of sample (as per client submission) : See section 3 Composition/information on ingredients on the SDS report
Job Receiving Date : 27 Dec 2018
SDS Preparation Period : 27 Dec 2018 - 07 Jan 2019

Service Requested : Safety Data Sheet (SDS) for the sample with submitted composition.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with US Regulations Relating to Labor 29 CFR 1910.1200, and is provided per attached.

Remark:

The SDS is prepared based on the information provided by client.

* This sample 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 client's reference only.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Zm guan
Approved Signatory



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Safety Data Sheet

29 CFR 1910.1200

Printing date 01/08/2019

Version number 1

Reviewed on 01/07/2019

1 Identification

- **Product identifier**
- **Trade name:** Nickel metal hydride battery
- **Recommended use of the chemical and restrictions on use:**
- **Application of the substance / the preparation:**
Used as DC power of personal care, vacuum cleaner, lighting electrical tool, digital products and so on.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** SHENZHEN HIGHPOWER TECHNOLOGY CO., LTD
- **Full address:**
BUILDING 1, NO.68 XINXIA ROAD, PINGHU STREET, LONGGANG DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.CHINA
- **Phone number:** +86-755-89636514
- **Email:** zyyou@highpowertech.com
- **Other U.S. contact point:** Not available
- **Further information obtainable from:** SHENZHEN HIGHPOWER TECHNOLOGY CO., LTD
- **Emergency telephone number:**
Poison Center
Tel: +1 800 222 1222
+86-755-89636514 Zhuying You
- **Reference Number:** CP18-069609 - SZ, CANEC1826990003
- **Remark:**
* This sample 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 client'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

- Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Muta. 2 H341 Suspected of causing genetic defects.
- Carc. 1A H350 May cause cancer.
- Repr. 1B H360 May damage fertility or the unborn child.
- STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



GHS05 Corrosion

- Eye Dam. 1 H318 Causes serious eye damage.



GHS07

- Acute Tox. 4 H302 Harmful if swallowed.
- Skin Irrit. 2 H315 Causes skin irritation.
- Skin Sens. 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).

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- **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)**

- **Hazard pictograms**



GHS05 GHS07 GHS08

- **Signal word** *Danger*

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

nickel dihydroxide

nickel

potassium hydroxide

Cobalt dihydroxide

sodium hydroxide

cobalt

- **Hazard statements**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

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.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

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.

P310 Immediately call a poison center/doctor.

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.

P330 Rinse mouth.

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

P333+P313 If skin irritation or rash occurs: 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.

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· **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.

· **Composition:**

7440-02-0	nickel ⚠️ Carc. 2, H351; STOT RE 1, H372; ⚠️ Skin Sens. 1, H317	30.0-40.0%
12054-48-7	nickel dihydroxide ⚠️ Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1A, H350; Repr. 1B, H360; STOT RE 1, H372; ⚠️ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317	15.0-22.0%
7439-89-6	iron	16.0-20.0%
7439-91-0	Lanthanum ⚠️ Water-react. 1, H260	1.7-4.5%
9003-07-0	Polypropylene	1.0-3.0%
7440-48-4	cobalt ⚠️ Resp. Sens. 1, H334; Carc. 2, H351; ⚠️ Skin Sens. 1, H317	1.5-2.5%
1310-58-3	potassium hydroxide ⚠️ Skin Corr. 1A, H314; ⚠️ Acute Tox. 4, H302	1.0-2.0%
1310-73-2	sodium hydroxide ⚠️ Skin Corr. 1A, H314	1.0-2.0%
21041-93-0	Cobalt dihydroxide ⚠️ Resp. Sens. 1, H334; Carc. 1A, H350; ⚠️ Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2A, H319; Skin Sens. 1, H317	0.5-2.0%
7439-96-5	manganese	0.3-1.5%
7429-90-5	Aluminum	0-1.0%
7440-00-8	neodymium	0-1.0%
7440-45-1	cerium ⚠️ Flam. Sol. 1, H228	0.29-0.9%
9002-88-4	Polyethylene	0-0.6%
9003-55-8	1,3-Butadiene/styrene copolymers	0.1-0.5%
1310-65-2	Lithium hydroxide ⚠️ Skin Corr. 1B, H314; ⚠️ Acute Tox. 4, H302	0.1-0.5%
7732-18-5	Water	0.15-0.23%
20427-58-1	Zinc hydroxide	0-0.1%
9004-32-4	Sodium carboxymethylcellulose	0-0.1%
9002-84-0	polytetrafluoroethylene	0-0.1%

4 First-aid measures

· **Description of first aid measures**

· **General description:**

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.

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- In case of unconsciousness place patient stably in side position for transportation.*
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** 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.

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.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** 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 section 13.
Ensure adequate ventilation.

7 Handling and storage

- **Precautions for safe handling:**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
For the general occupational hygienic measures refer to Section 8.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls/personal protection

- **Components with limit values that require monitoring at the workplace:**

7440-02-0 nickel (30.0-40.0%)

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

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12054-48-7 nickel dihydroxide (15.0-22.0%)

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

7440-48-4 cobalt (1.5-2.5%)

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) NIC-0.02* mg/m ³ *inh. fraction; NIC-Skin, DSEN, RSEN, BEI

1310-58-3 potassium hydroxide (1.0-2.0%)

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

1310-73-2 sodium hydroxide (1.0-2.0%)

PEL (USA)	Long-term value: 2 mg/m ³
REL (USA)	Ceiling limit value: 2 mg/m ³
TLV (USA)	Ceiling limit value: 2 mg/m ³

7439-96-5 manganese (0.3-1.5%)

PEL (USA)	Ceiling limit value: 5 mg/m ³ as Mn
REL (USA)	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³ fume, as Mn
TLV (USA)	Long-term value: 0.02* 0.1** mg/m ³ as Mn; *respirable **inhalable fraction

7429-90-5 Aluminum (0-1.0%)

PEL (USA)	Long-term value: 15*; 5** mg/m ³ *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ as Al*Total dust**Respirable/pyro powd./welding f.
TLV (USA)	Long-term value: 1* mg/m ³ as Al; *as respirable fraction

1310-65-2 Lithium hydroxide (0.1-0.5%)

WEEL (USA)	Ceiling limit value: 1 mg/m ³
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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 (ACGIH)
 WEEL (USA): Guide to Occupational Exposure Values (AIHA WEELs)

Ingredients with biological limit values:
7440-48-4 cobalt

BEI (USA)	15 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Cobalt (background)
	1 µg/L Medium: blood Time: end of shift at end of workweek Parameter: Cobalt (background, semi-quantitative)

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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 skin.
 - 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:	Black
Odor:	Odorless
Odor threshold:	Not available

- **pH-value:** Not available

- **Change in condition**

Melting point/Freezing point:	Not available
Initial boiling point and boiling range:	Not available

- **Flash point:** Not available

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· 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:** Data not available
- **Chemical stability:** Data not available
- **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:**

7440-48-4 cobalt

Oral	LD50	6,170 mg/kg (rat)
------	------	-------------------

7439-89-6 iron

Oral	LD50	30,000 mg/kg (rat)
------	------	--------------------

7439-96-5 manganese

Oral	LD50	9,000 mg/kg (rat)
------	------	-------------------

9004-32-4 Sodium carboxymethylcellulose

Oral	LD50	>27,000 mg/kg (mouse)
		>27,000 mg/kg (rat)

- **Skin corrosion/irritation:** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation:** Strong irritant with the danger of severe eye injury.
- **Respiratory or skin sensitization:**
Sensitization possible through inhalation.

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Sensitization possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic

Harmful

Irritant

Carcinogenic.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

7440-02-0	nickel	2B
12054-48-7	nickel dihydroxide	1
9003-07-0	Polypropylene	3
7440-48-4	cobalt	2B
21041-93-0	Cobalt dihydroxide	2B
9002-88-4	Polyethylene	3
9003-55-8	1,3-Butadiene/styrene copolymers	3
9002-84-0	polytetrafluoroethylene	3

· **NTP (National Toxicology Program)**

7440-02-0	nickel	R
12054-48-7	nickel dihydroxide	K
7440-48-4	cobalt	R

· **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

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· **UN proper shipping name**
 · **DOT** Batteries, nickel-metal hydride
 · **IMDG** Batteries, nickel-metal hydride, MARINE POLLUTANT
 · **IATA** Not applicable

· **Transport hazard class(es)**
 · **DOT, IMDG**



· **Class** 9 Miscellaneous dangerous substances and articles
 · **Label** 9

· **IATA**
 · **Class** Not applicable
 · **Label** -

· **Packing group**
 · **DOT, IMDG, IATA** Not applicable

· **Environmental hazards:** Product contains environmentally hazardous substances: nickel dihydroxide
 · **Marine pollutant:** Yes (DOT)
 Symbol (fish and tree)

· **Special precautions for user** Not applicable
 · **EMS Number:** F-A,S-I

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable

· **Transport/Additional information:**

· **DOT**
 · **Remarks:** Special marking with the symbol (fish and tree).
 · **IMDG**
 · **Limited quantities (LQ)** 0
 · **Excepted quantities (EQ)** Code: E0
 Not permitted as Excepted Quantity

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

7440-02-0	nickel
12054-48-7	nickel dihydroxide
7440-48-4	cobalt
21041-93-0	Cobalt dihydroxide
7439-96-5	manganese
7429-90-5	Aluminum
20427-58-1	Zinc hydroxide

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· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

7440-02-0 nickel

12054-48-7 nickel dihydroxide

7440-48-4 cobalt

· 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

· Chemicals known to cause developmental toxicity:

12054-48-7 nickel dihydroxide

· New Jersey Right-to-Know List:

7440-02-0 nickel

12054-48-7 nickel dihydroxide

7440-48-4 cobalt

1310-58-3 potassium hydroxide

1310-73-2 sodium hydroxide

7439-96-5 manganese

7429-90-5 Aluminum

7440-45-1 cerium

· New Jersey Special Hazardous Substance List:

7440-02-0 nickel

CA

12054-48-7 nickel dihydroxide

CA

7440-48-4 cobalt

CA, F3

1310-58-3 potassium hydroxide

CO, R1

1310-73-2 sodium hydroxide

CO, R1

7439-96-5 manganese

F3, R1

7429-90-5 Aluminum

F3, R1

7440-45-1 cerium

F3, R3

· Pennsylvania Right-to-Know List:

7440-02-0 nickel

12054-48-7 nickel dihydroxide

7440-48-4 cobalt

1310-58-3 potassium hydroxide

1310-73-2 sodium hydroxide

7439-96-5 manganese

7429-90-5 Aluminum

9002-84-0 polytetrafluoroethylene

· Pennsylvania Special Hazardous Substance List:

7440-02-0 nickel

ES

12054-48-7 nickel dihydroxide

E

7440-48-4 cobalt

E

1310-58-3 potassium hydroxide

E

1310-73-2 sodium hydroxide

E

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7439-96-5	manganese	E
7429-90-5	Aluminum	E

· Cancerogenity categories
· EPA (Environmental Protection Agency)

7439-96-5	manganese	D
20427-58-1	Zinc hydroxide	D, I, II

· TLV (Threshold Limit Value established by ACGIH)

7440-02-0	nickel	A5
12054-48-7	nickel dihydroxide	A1
7440-48-4	cobalt	A3
7429-90-5	Aluminum	A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

7440-02-0	nickel	
12054-48-7	nickel dihydroxide	

· National regulations:
· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

16 Other information

· Relevant hazard statements

- H228 Flammable solid.
- 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.
- H319 Causes serious eye irritation.
- 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 humans 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.

Remark:

* This sample 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 client's reference only.

· Date of preparation / last revision 01/08/2019 / -

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Safety Data Sheet

29 CFR 1910.1200

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Trade name: Nickel metal hydride battery

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· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

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

Flam. Sol. 1: Flammable solids – Category 1

Water-react. 1: Substances and mixtures which in contact with water emit flammable gases – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 2: Germ cell mutagenicity – Category 2

Carc. 1A: Carcinogenicity – Category 1A

Carc. 2: Carcinogenicity – Category 2

Repr. 1B: Reproductive toxicity – Category 1B

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

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