



SDS Service Summary

No.: CANEC23017651401

Date: 11 Jan 2024

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SGS Job No. : SZP23-034217
Product Name : Nickel Metal Hydride Battery
Manufacturer / Supplier : SHENZHEN HIGHPOWER TECHNOLOGY CO.,LTD. & GUANGDONG HIGHPOWER NEW ENERGY TECHNOLOGY CO., LTD.
Composition/Ingredient of product (as per applicant submission) : See *section 3 Composition/information on ingredients* on the SDS
Job Receiving Date : 28 Dec 2023
SDS Preparation Period : 28 Dec 2023-02 Jan 2024
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 European Commission Regulation (EC) No 1272/2008.
Summary : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2020/878, and is provided per attached.

Disclaimer

This Safety Data Sheet (SDS) is provided to applicant to fulfill European Commission Regulation (EC) No 1907/2006 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.

Zm guan
Project Engineer

Safety data sheet

Regulation (EC) 1907/2006 and 1272/2008

Printing date: 05.01.2024

Version number: 1

Revision date: 29.12.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Nickel Metal Hydride Battery
- **UFI:** YVDO-8071-T00S-9H41
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:**
Used as DC Power of Personal care, Vacuum cleaner, Lighting, Electrical tool, Digital products and so on
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**
SHENZHEN HIGHPOWER TECHNOLOGY CO.,LTD. & GUANGDONG HIGHPOWER NEW ENERGY TECHNOLOGY CO., LTD.
- **Full address:**
BUILDING 1, NO.68 XINXIA ROAD, PINGHU STREET, LONGGANG DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R. CHINA & NO.73, SONGBAILING AVENUE, START-UP AREA, CHINA-KOREA (HUIZHOU) INDUSTRIAL PARK, ZHONGKAI HI-TECH INDUSTRIAL DEVELOPMENT ZONE, HUIZHOU CITY, GUANGDONG PROVINCE, P.R. CHINA
- **Phone number:** 075589636514
- **Email:** zyyou@highpowertech.com
- **Only Representative / other EU contact point:** Not available
- **1.4 Emergency telephone number:**
IRELAND
National Poisons Information Centre
Tel: +353 (01) 809 2566 (For healthcare professionals)
+353 (01) 809 2166 (For public; 8am - 10pm)
- **1.5 Reference Number:** CANEC23017651401, SZP23-034217
- **1.6 Remark:**
This product is likely to be classified as article with substances not intended to be released and is out of scope of a SDS as set out in Regulation (EC) No 1907/2006. This SDS is generated for applicant's reference only.

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS06 skull and crossbones

Acute Tox. 2 H330 Fatal if inhaled.



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 H360FD May damage fertility. May damage the unborn child.

STOT RE 1 H372 Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

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GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of Regulation (EC) No.1272/2008.

· **Classification system:**

The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No. 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS05



GHS06



GHS08



GHS09

· **Signal word** Danger

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

Nickel dihydroxide

Nickel

potassium hydroxide

Cobalt dihydroxide

Cobalt

· **Hazard statements**

H302 Harmful if swallowed.

H330 Fatal if inhaled.

H314 Causes severe skin burns and 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.

H360FD May damage fertility. May damage the unborn child.

H372 Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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.

P320 Specific treatment is urgent (see on this label).

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P362+P364 Take off contaminated clothing and wash it before reuse.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

Restricted to professional users.

· **2.3 Other hazards:**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable

· **vPvB:** Not applicable

· **Determination of endocrine-disrupting properties** Not applicable

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:**

Mixture of the substances listed below with nonhazardous additions.

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

· **Composition:**

CAS: 7440-02-0 EINECS: 231-111-4 Index number: 028-002-00-7	Nickel ⚠️ Carc. 2, H351; STOT RE 1, H372; ⚠️ Skin Sens. 1, H317 Note: S, 7 Substance with a Union workplace exposure limit	30-40%
CAS: 12054-48-7 EINECS: 235-008-5 Index number: 028-008-00-X	Nickel dihydroxide ⚠️ Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1A, H350i; Repr. 1B, H360D; STOT RE 1, H372; ⚠️ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠️ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317 Substance with a Union workplace exposure limit	15-22%
CAS: 7439-89-6 EINECS: 231-096-4	Iron	16-20%
CAS: 7439-91-0 EINECS: 231-099-0	Lanthanum	1.7-4.5%
CAS: 9003-07-0	Polypropylene	1-3%
CAS: 7440-48-4 EINECS: 231-158-0 Index number: 027-001-00-9	Cobalt ⚠️ Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1B, H350; Repr. 1B, H360F; ⚠️ Skin Sens. 1, H317; Aquatic Chronic 4, H413 Substance with a Union workplace exposure limit	1.5-2.5%

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CAS: 1310-58-3 EINECS: 215-181-3 Index number: 019-002-00-8	potassium hydroxide Skin Corr. 1A, H314; Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1A; H314: $C \geq 5\%$ Skin Corr. 1B; H314: $2\% \leq C < 5\%$ Skin Irrit. 2; H315: $0.5\% \leq C < 2\%$ Eye Irrit. 2; H319: $0.5\% \leq C < 2\%$ Substance with a Union workplace exposure limit	1-2%
CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6	Sodium hydroxide Skin Corr. 1A, H314 Specific concentration limits: Skin Corr. 1A; H314: $C \geq 5\%$ Skin Corr. 1B; H314: $2\% \leq C < 5\%$ Skin Irrit. 2; H315: $0.5\% \leq C < 2\%$ Eye Irrit. 2; H319: $0.5\% \leq C < 2\%$ Substance with a Union workplace exposure limit	1-2%
CAS: 21041-93-0 EINECS: 244-166-4	Cobalt dihydroxide Acute Tox. 1, H330; Resp. Sens. 1, H334; Carc. 1B, H350i; Repr. 1B, H360Fd; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1, H317	0.5-2%
CAS: 7439-96-5 EINECS: 231-105-1	Manganese Substance with a Union workplace exposure limit	0.3-1.5%
CAS: 7429-90-5 EINECS: 231-072-3	Aluminum Substance with a Union workplace exposure limit	0-1%
CAS: 7440-00-8 EINECS: 231-109-3	Neodymium	0-1%
CAS: 7440-45-1 EINECS: 231-154-9	Cerium Flam. Sol. 1, H228; Water-react. 2, H261	0.29-0.9%
CAS: 9002-88-4	Polyethylene	0-0.6%
CAS: 1310-65-2 EINECS: 215-183-4	Lithium hydroxide Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302 Substance with a Union workplace exposure limit	0.1-0.5%
CAS: 9003-55-8	Benzene, ethenyl-, polymer with 1,3-butadiene	0.1-0.5%
CAS: 7732-18-5 EINECS: 231-791-2	Water	0.15-0.23%
CAS: 9004-32-4	Cellulose, carboxymethyl ether, sodium salt	0-0.1%
CAS: 9002-84-0	Polytetrafluoroethylene Substance with a Union workplace exposure limit	0-0.1%
CAS: 9003-04-7	2-Propenoic acid, homopolymer, sodium salt	0-0.1%
CAS: 20427-58-1 EINECS: 243-814-3	Zinc hydroxide Aquatic Acute 1, H400; Aquatic Chronic 2, H411	0-0.1%

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SECTION 4: First aid measures

- **4.1 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.
Remove breathing equipment only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:**
Supply fresh air or oxygen; call for 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.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Call for a doctor immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed:**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture:**
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water source.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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SECTION 7: Handling and storage

- **7.1 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 fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 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:**
Store away from foodstuffs.
Store away from water.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s):** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

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

CAS: 7440-02-0 Nickel (30-40%)

AGW (Germany)	Long-term value: 0.006A; 0.030E* mg/m ³ 8(II);AGS, 24, Sh, Y, 10*, 31*
VLEP (France)	Long-term value: 1 mg/m ³ C2
OEL (Ireland)	Long-term value: 0.5 mg/m ³ Sens

CAS: 12054-48-7 Nickel dihydroxide (15-22%)

BOELV (EU)	Long-term value: 0.1* mg/m ³ as Ni; sens. dermal/resp. *inhalable
AGW (Germany)	Long-term value: 0.030E mg/m ³ 8(II);AGS, Sh, Y, 10, 24, 31
TRGS 910 (Germany)	Short-term value: 0.006 (A) mg/m ³ Long-term value: 0.006 (A) mg/m ³ 8, Konzentrationen beziehen sich auf Ni-Gehalt
VLEP (France)	Long-term value: 1 mg/m ³ C1A, M2, R1B
OEL (Ireland)	Long-term value: 0.5 mg/m ³ as Ni

CAS: 7440-48-4 Cobalt (1.5-2.5%)

MAK (Germany)	einatembare Fraktion; vgl.Abschn.XIII
OEL (Ireland)	Long-term value: 0.02 mg/m ³ as Co; Sens.

CAS: 1310-58-3 potassium hydroxide (1-2%)

VLEP (France)	Short-term value: 2 mg/m ³
OEL (Ireland)	Short-term value: 2 mg/m ³

CAS: 1310-73-2 Sodium hydroxide (1-2%)

MAK (Germany)	vgl.Abschn.IIb
VLEP (France)	Long-term value: 2 mg/m ³

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OEL (Ireland)	Short-term value: 2 mg/m ³
CAS: 7439-96-5 Manganese (0.3-1.5%)	
IOELV (EU)	Long-term value: 0.2* 0.05** mg/m ³ as Mn; *inhalable, **respirable fraction
AGW (Germany)	Long-term value: 0.02A; 0.2E mg/m ³ 8(II); DFG, Y, 10, 20
VLEP (France)	Long-term value: 0.05* 0.20** mg/m ³ *fraction alvéolaire **inhalable; en manganèse
OEL (Ireland)	Short-term value: 3* mg/m ³ Long-term value: 0.2(I) 0.05(R) 0.02(R)* mg/m ³ IOLEV; *fume
CAS: 7429-90-5 Aluminum (0-1%)	
AGW (Germany)	Long-term value: 1.25* 10** mg/m ³ 2(II); *alveolengängig**einatembar; AGS, DFG, Y
VLEP (France)	Long-term value: 5* 10** mg/m ³ *pulvérulent **métal
OEL (Ireland)	Long-term value: 1* mg/m ³ *metal, respirable fraction
CAS: 1310-65-2 Lithium hydroxide (0.1-0.5%)	
MAK (Germany)	vgl. Abschn. IIb
OEL (Ireland)	Short-term value: 1 mg/m ³
CAS: 9002-84-0 Polytetrafluoroethylene (0-0.1%)	
MAK (Germany)	Long-term value: 0.3 A* 4E** mg/m ³ *: Abschn. Vf+Xc; **: Abschn. V, f+g, Xc

· **Regulatory information**

AGW (Germany): TRGS 900

VLEP (France): ED 1487 05.2021

OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work

BOELV (EU): EU 2022/431

MAK (Germany): MAK- und BAT-Liste

IOELV (EU): (EU) 2019/1831

· **DNELs:** Not available· **PNECs:** Not available

· **Ingredients with biological limit values:**

CAS: 7439-96-5 Manganese	
BGW (Germany)	20 µg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten, Expositionsende bzw. Schichtende Parameter: Mangan
CAS: 7429-90-5 Aluminum	
BGW (Germany)	50 µg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten Parameter: Aluminium

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.

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· **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.
- Avoid contact with the eyes and skin.
- See Section 7 for information about design of technical facilities.

· **Individual protection measures, such as personal protective equipment**

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Hand protection:**



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/face protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

· **Thermal hazards:** Not required for normal conditions of use.

· **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

- | | |
|--|---------------|
| · Physical state: | Solid |
| · Colour: | Silver |
| · Odour: | Odourless |
| · Odour threshold: | Not available |
| · Melting point/Freezing point: | Not available |
| · Boiling point or initial boiling point and boiling range: | Not available |
| · Flammability: | Not available |
| · Lower and upper explosion limit | |
| · Lower: | Not available |
| · Upper: | Not available |

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· Flash point:	Not available
· Auto-ignition temperature:	Not available
· Decomposition temperature:	Not available
· pH:	Not available
· Viscosity	
· Kinematic viscosity:	Not available
· Dynamic viscosity:	Not available
· Solubility	
· Water:	Not available
· Partition coefficient n-octanol/water (log value):	Not available
· Vapour pressure:	Not available
· Density and/or relative density	
· Density:	Not available
· Relative density:	Not available
· Relative vapour density:	Not available
· Particle characteristics:	Not available

· **9.2 Other information**

· Appearance	
· Form:	Solid

· Information with regard to physical hazard classes	
· Explosives:	Not applicable
· Flammable gases:	Not applicable
· Aerosols:	Not applicable
· Oxidising gases:	Not applicable
· Gases under pressure:	Not applicable
· Flammable liquids:	Not applicable
· Flammable solids:	Not applicable
· Self-reactive substances and mixtures:	Not applicable
· Pyrophoric liquids:	Not applicable
· Pyrophoric solids:	Not applicable
· Self-heating substances and mixtures:	Not applicable
· Substances and mixtures, which emit flammable gases in contact with water:	Not applicable
· Oxidising liquids:	Not applicable
· Oxidising solids:	Not applicable
· Organic peroxides:	Not applicable
· Corrosive to metals:	Not applicable
· Desensitised explosives:	Not applicable
· Other safety characteristics:	Not available

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No further relevant information available.
- **10.2 Chemical stability:** No further relevant information available.
- **10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- **10.4 Conditions to avoid:** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if swallowed.

Fatal if inhaled.

LD/LC50 values relevant for classification:

CAS: 7439-89-6 Iron

Oral	LD50	30,000 mg/kg (rat)
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CAS: 7440-48-4 Cobalt

Oral	LD50	6,170 mg/kg (rat)
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CAS: 7439-96-5 Manganese

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

CAS: 9004-32-4 Cellulose, carboxymethyl ether, sodium salt

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

Dermal	LD50	>2,000 mg/kg (rabbit)
--------	------	-----------------------

CAS: 9003-04-7 2-Propenoic acid, homopolymer, sodium salt

Oral	LD50	>40,000 mg/kg (rat)
------	------	---------------------

- **Skin corrosion/irritation:** Causes severe skin burns and eye damage.

- **Serious eye damage/irritation:** Causes serious eye damage.

- **Respiratory or skin sensitization:**

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

- May cause an allergic skin reaction.

- **Germ cell mutagenicity:** Suspected of causing genetic defects.

- **Carcinogenicity:** May cause cancer.

- **Reproductive toxicity:** May damage fertility. May damage the unborn child.

- **STOT-single exposure:** Based on available data, the classification criteria are not met.

- **STOT-repeated exposure:**

- Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

- **Aspiration hazard:** Based on available data, the classification criteria are not met.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties:**

- None of the ingredients is listed.

- **Other information:** No further relevant information available.

SECTION 12: Ecological information

12.1 Toxicity

- **Aquatic toxicity:** No further relevant information available.

- **12.2 Persistence and degradability:** No further relevant information available.

- **12.3 Bioaccumulative potential:** No further relevant information available.

- **12.4 Mobility in soil:** No further relevant information available.

12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable

- **vPvB:** Not applicable

12.6 Endocrine disrupting properties:

- The product does not contain substances with endocrine disrupting properties.

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- 12.7 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation:
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|--|
| · 14.1 UN number or ID number | Not applicable |
| · ADR/RID/ADN, IATA | Not applicable |
| · IMDG | UN3496 |
| · 14.2 UN proper shipping name | Not applicable |
| · ADR/RID/ADN, IATA | Not applicable |
| · IMDG | Batteries, nickel-metal hydride, MARINE POLLUTANT |
| · 14.3 Transport hazard class(es) | |
| · ADR/RID/ADN, IATA | |
| · Class | Not applicable |
| · Label | - |
| · IMDG | |
|  | |
| · Class | 9 Miscellaneous dangerous substances and articles. |
| · Label | 9 |
| · 14.4 Packing group | |
| · ADR/RID/ADN, IMDG, IATA | Not applicable |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | Yes
Symbol (fish and tree) |
| · 14.6 Special precautions for user: | Not applicable |
| · Hazard identification number (Kemler code): | - |
| · EMS Number: | F-A,S-I |
| · Stowage Category | A |
| · Stowage Code | SW1 Protected from sources of heat. |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable |

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· 14.8 Transport/Additional information:

Try to avoid:

(a) A short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or, in the case of equipment, by disconnection of the battery and protection of exposed terminals);
 (b) Unintentional activation.

Separate batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport.

· ADR/RID/ADN**· Remarks:**

Referring to the Hazard Classification and Identification Report for Transport of Goods (Report No. 202400314632626) issued by Shanghai Institute of Chemical Industry Testing Co., Ltd, Nickel Metal Hydride Battery AA 1.2V is tested / assessed and is not subject to JT/T617-2018 Regulations concerning road transportation of dangerous goods Part 2 and 3 (Effective Date: 2024-01-01) (upon supplier's information).

· IMDG**· Limited quantities (LQ)**

0

· Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

· IATA**· Remarks:**

Referring to the Hazard Classification and Identification Report for Transport of Goods (Report No. 202400514532024) issued by Shanghai Institute of Chemical Industry Testing Co., Ltd, Nickel Metal Hydride Battery AA 1.2V is tested / assessed and is not subject to IATA Dangerous Goods Regulations (DGR) 65th Edition according to special provision A199 (Effective Date: 2024-01-01) (upon supplier's information).

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· Directive 2012/18/EU**

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category

H2 ACUTE TOXIC

E2 Hazardous to the Aquatic Environment

· Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

· REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

None of the ingredients is listed.

· Regulation (EU) No 649/2012

None of the ingredients is listed.

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- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

- **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

- **REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone-depleting potential)**

None of the ingredients is listed.

- **Other regulations, limitations and prohibitive regulations**

- **SVHC Candidate List of REACH Regulation Annex XIV Authorisation (14/6/2023)**

None of the ingredients is listed

- **REACH Regulation Annex XVII Restriction (25/9/2023)**
See Section 16 for information about restriction of use.

None of the ingredients is listed

- **REACH Regulation Annex XIV Authorisation List (8/4/2022)**

None of the ingredients is listed

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- **Recommended restriction of use** Not applicable

- **Relevant hazard statements**

- H228 Flammable solid.
- H261 In contact with water releases flammable gases.
- 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.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- 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.
- H350i May cause cancer by inhalation.
- H351 Suspected of causing cancer.
- H360D May damage the unborn child.
- H360F May damage fertility.
- H360Fd May damage fertility. Suspected of damaging the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

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H413 May cause long lasting harmful effects to aquatic life.

Classification according to Regulation (EC) No. 1272/2008

Acute toxicity - oral
 Acute toxicity - inhalation
 Skin corrosion/irritation
 Serious eye damage/irritation
 Respiratory sensitisation
 Skin sensitisation
 Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 Specific target organ toxicity (repeated exposure)
 Hazardous to the aquatic environment - long-term
 (chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No. 1272/2008.

 The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2020/878.

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 reason, 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.

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 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)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Flam. Sol. 1: Flammable solids – Category 1
 Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2
 Acute Tox. 4: Acute toxicity – Category 4
 Acute Tox. 1: Acute toxicity – Category 1
 Acute Tox. 2: Acute toxicity – Category 2
 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. 2: Serious eye damage/eye irritation – Category 2
 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. 1A: Carcinogenicity – Category 1Ai
 Carc. 1B: Carcinogenicity – Category 1B
 Carc. 1B: Carcinogenicity – Category 1B
 Carc. 2: Carcinogenicity – Category 2
 Repr. 1B: Reproductive toxicity – Category 1B
 Repr. 1B: Reproductive toxicity – Category 1B
 Repr. 1B: Reproductive toxicity – Category 1B
 Repr. 1B: Reproductive toxicity – Category 1B
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

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Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

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