

FOSHAN GELONG ENERGY TECHNOLOGY CO.,LTD
NO.5 NORTH PINGSHUN WEST ROAD,PINGNAN GUICHENG STREET,NANHAI DISTRICT FOSHAN CITY 528200
CHINA

SGS Job No. : CP16-077652 - GZ
Sample Name : NI-MH BATTERY
Article Number : 8507500000
Model No. : SC
Client Reference Information : A,AA,AAA,AAAA,C,D,F,N
Manufacturer : FOSHAN GELONG ENERGY TECHNOLOGY CO.,LTD
Country of Origin : CHINA
End Uses : Used For Electronic Appliance
Composition/Ingredient of sample (as per client submission) : See section 3 Composition/information on ingredients on the SDS report
Job Receiving Date : 27 Dec 2016
SDS Preparation Period : 27 Dec 2016 – 03 Jan 2017

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 European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2015/830, 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 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 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

1907/2006/EC, 1272/2008/EC


Printing date 04.01.2017


Revision: 03.01.2017


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


- **1.1 Product identifier**
- **Trade name:** NI-MH BATTERY
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** Used For Electronic Appliance
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:** FOSHAN GELONG ENERGY TECHNOLOGY CO.,LTD
- **Full address:**
NO.5 NORTH PINGSHUN WEST ROAD,PINGNAN GUICHENG STREET,NANHAI DISTRICT FOSHAN CITY 528200 CHINA
- **Phone number:** 0086-757-83838851
- **Email:** henry@utbattery.com
- **Only Representative / other EU contact point:** Not available
- **Further information obtainable from:** FOSHAN GELONG ENERGY TECHNOLOGY CO.,LTD
- **1.4 Emergency telephone number:**
UNITED KINGDOM
National Poisons Information Service
Tel: +44 (0) 344 892 0111 (for healthcare professional)
+44 (0) 845 46 47 (in England or Wales)
+44 (0) 8454 24 24 24 (in Scotland)
0086-757-83838851 FOSHAN GELONG ENERGY TECHNOLOGY CO.,LTD
- **1.5 Reference Number:** CP16-077652 - GZ, CANEC1625632501
- **1.6 Remark:**
* This sample 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 client's reference only.

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
-  **GHS02 flame**

Flam. Sol. 1	H228 Flammable solid.
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-  **GHS08 health hazard**

Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 2	H351 Suspected of causing cancer.
STOT RE 1	H372 Causes damage to organs through prolonged or repeated exposure.
-  **GHS05 corrosion**

Skin Corr. 1A	H314 Causes severe skin burns and eye damage.
Eye Dam. 1	H318 Causes serious eye damage.
-  **GHS09 environment**

Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.
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GHS07

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 1272/2008/EC.

· **Classification system:**

The classification is according to the latest edition of EU Regulation 1272/2008/EC, 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**



GHS02

GHS05

GHS08

GHS09

· **Signal word** Danger

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

nickel powder (particle diameter < 1 mm)

aluminium, compound with nickel (1:1)

potassium hydroxide

cobalt

· **Hazard statements**

H228 Flammable solid.

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.

H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

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 label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P405 Store locked up.

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

· **2.3 Other hazards:**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:**

Mixture of the substances listed below with nonhazardous additions.

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

· **Composition:**

CAS: 7440-02-0 EINECS: 231-111-4 Index number: 028-002-01-4	nickel powder (particle diameter < 1 mm) ⚠️ Carc. 2, H351; STOT RE 1, H372; ⚠️ Skin Sens. 1, H317; Aquatic Chronic 3, H412	30,0-44,0%
CAS: 12003-78-0 EINECS: 234-439-6	aluminium, compound with nickel (1:1) ⚠️ Resp. Sens. 1, H334; Carc. 2, H351; ⚠️ Skin Sens. 1, H317	30,0-35,0%
CAS: 7439-89-6 EINECS: 231-096-4	iron ⚠️ Flam. Sol. 2, H228; Self-heat. 1, H251	7,0%
CAS: 7440-48-4 EINECS: 231-158-0 Index number: 027-001-00-9	cobalt ⚠️ Resp. Sens. 1, H334; ⚠️ Skin Sens. 1, H317; Aquatic Chronic 4, H413	2,0-6,0%
CAS: 7440-50-8 EINECS: 231-159-6	copper ⚠️ Flam. Sol. 1, H228; ⚠️ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	5,0%
CAS: 1310-58-3 EINECS: 215-181-3 Index number: 019-002-00-8	potassium hydroxide ⚠️ Skin Corr. 1A, H314; ⚠️ Acute Tox. 4, H302	<3,0%
CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6	sodium hydroxide ⚠️ Skin Corr. 1A, H314	<2,0%
CAS: 9002-84-0	polytetrafluoroethylene	<1,2%
CAS: 24937-16-4	Polylauramide	<1,0%
CAS: 7440-66-6 EINECS: 231-175-3 Index number: 030-001-01-9	zinc powder -zinc dust (stabilized) ⚠️ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0,5%

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.

· **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.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** 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.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂ powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture:** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
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 item 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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling:**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **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:** Not required.
- **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:**

7440-02-0 nickel powder (particle diameter < 1 mm) (30-44%)

WEL (Great Britain)	Long-term value: 0,5 mg/m ³ as Ni; Sk; Carc
AGW (Germany)	Long-term value: 0,006 A mg/m ³ 8(II);AGS, 10, Sh, Y
VME (France)	Long-term value: 1 mg/m ³ C2

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12003-78-0 aluminium, compound with nickel (1:1) (30-35%)	
WEL (Great Britain)	Long-term value: 0,5 mg/m ³ as Ni; Sk; Carc
MAK (Germany)	einatembare Fraktion; vgl.Abschn.XII
7440-48-4 cobalt (2,0-6,0%)	
WEL (Great Britain)	Long-term value: 0,1 mg/m ³ as Co; Carc, Sen
MAK (Germany)	einatembare Fraktion; vgl.Abschn.XIII
7440-50-8 copper (5,0%)	
WEL (Great Britain)	Short-term value: 2** mg/m ³ Long-term value: 0,2* 1** mg/m ³ *fume **dusts and mists (as Cu)
MAK (Germany)	Long-term value: 0,1E mg/m ³
VME (France)	Short-term value: 2** mg/m ³ Long-term value: 0,2* 1** mg/m ³ *fumées **poussières, en Cu
1310-58-3 potassium hydroxide (<3,0%)	
WEL (Great Britain)	Short-term value: 2 mg/m ³
VME (France)	Short-term value: 2 mg/m ³
1310-73-2 sodium hydroxide (<2,0%)	
WEL (Great Britain)	Short-term value: 2 mg/m ³
MAK (Germany)	vgl.Abschn.IIb
VME (France)	Long-term value: 2 mg/m ³
7440-66-6 zinc powder -zinc dust (stabilized) (0,5%)	
MAK (Germany)	Long-term value: 0,1A* 2E** mg/m ³ *alveolengängig; **einatembar

- **DNELs:** Not available

- **PNECs:** Not available

- **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.

- **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.

- **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.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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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

· **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**

· **Appearance**

Form: Solid

Colour: Silvery

· **Odour:** Odourless

· **Odour threshold:** Not available

· **pH-value:** Not available

· **Change in condition**

Melting point/freezing point: Not available

Initial boiling point and boiling range: Not available

· **Freezing point:** Not available

· **Flash point:** Not available

· **Flammability (solid, gas):** Not available

· **Auto-Ignition temperature:** Not available

· **Decomposition temperature:** Not available

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits**

Lower: Not available

Upper: Not available

· **Oxidizing properties:** Not available

· **Vapour pressure:** Not available

· **Density:** Not available

· **Relative density:** Not available

· **Vapour density:** Not available

· **Evaporation rate:** Not available

· **Solubility in / Miscibility with water:**

Not available

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- | | |
|--|--|
| · Partition coefficient: n-octanol/water: | Not available |
| · Viscosity | |
| Dynamic: | Not available |
| Kinematic: | Not available |
| · 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** Data not available
- **10.2 Chemical stability:** Data not 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.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:		
7440-48-4 cobalt		
Oral	LD50	6170 mg/kg (rat)
7439-89-6 iron		
Oral	LD50	30000 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** Based on available data, the classification criteria are not met.
- **Carcinogenicity**
Suspected of causing cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**
Causes damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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.

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- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**
- Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.
- Must not reach sewage water or drainage ditch undiluted or unneutralised.
- Danger to drinking water if even small quantities leak into the ground.
- Also poisonous for fish and plankton in water bodies.
- Toxic for aquatic organisms

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

- | | |
|--|--|
| <ul style="list-style-type: none"> · 14.1 UN-Number · ADR,RID,ADN, IATA · IMDG | <p style="text-align: right;">Not applicable
UN3496</p> |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR,RID,ADN, IATA · IMDG | <p style="text-align: right;">Not applicable
Batteries, nickel-metal hydride (copper, zinc powder -zinc dust (stabilized)), MARINE POLLUTANT</p> |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR,RID,ADN, IATA · Class · Label | <p style="text-align: right;">Not applicable
-</p> |
| <ul style="list-style-type: none"> · IMDG | |
| <div style="text-align: center;">  </div> | |
| <ul style="list-style-type: none"> · Class · Label | <p style="text-align: right;">9 Miscellaneous dangerous substances and articles.
9</p> |
| <ul style="list-style-type: none"> · 14.4 Packing group · ADR,RID,ADN, IMDG, IATA | <p style="text-align: right;">Not applicable</p> |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards · Marine pollutant: | <p style="text-align: right;">Product contains environmentally hazardous substances:
copper
Symbol (fish and tree)</p> |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user: · Danger code (Kemler): · EMS Number: | <p style="text-align: right;">Not applicable.
-
F-A,S-I</p> |

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· Segregation groups	Heavy metals and their salts (including their organometallic compounds)
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
· 14.8 Transport/Additional information:	
· IMDG	
· Limited quantities (LQ)	0
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

· **MAK(German Maximum Workplace Concentration)**

12003-78-0	aluminium, compound with nickel (1:1)	1
7440-48-4	cobalt	2

· **Directive 2012/18/EU**

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

· **Seveso category E2** Hazardous to the Aquatic Environment

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

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **National regulations:**

· **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

· **Other regulations, limitations and prohibitive regulations**

· **SVHC Candidate List of REACH Regulation Annex XIV Authorisation (20/6/2016)**

None of the ingredients is listed

· **REACH Regulation Annex XVII Restriction (12/12/2016)**

See Section 16 for information about restriction of use.

None of the ingredients is listed

· **REACH Regulation Annex XIV Authorisation List (14/8/2014)**

None of the ingredients is listed

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

SECTION 16: Other information

· **Relevant hazard statements**

H228 Flammable solid.

H251 Self-heating: may catch fire.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

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

H351 Suspected of causing cancer.

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.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

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The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

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.

Remark:

* This sample 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 client's reference only.

Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

Flam. Sol. 2: Flammable solids – Category 2

Self-heat. 1: Self-heating substances and mixtures – Category 1

Acute Tox. 4: Acute toxicity – Category 4

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

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

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

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

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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

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