

SDS Report

No.: CANEC1924549202

Date: 26 Dec 2019

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SHENZHEN BETTERPOWER BATTERY CO.,LTD
NO.11 BLDG,TONGFU VILLAGE INDUSTRIAL ZONE DALANG, LONGHUA DISTRICT, SHENZHEN, CHINA.

SGS Job No. : CP19-065562 - SZ
Sample Name : Ni-MH Battery
End Uses : Household & Industrial power
Composition/Ingredient of sample (as per client submission) : See *section 3 Composition/information on ingredients* on the SDS report
Job Receiving Date : 10 Dec 2019
SDS Preparation Period : 10 Dec 2019 - 16 Dec 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 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



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center Chemical Laboratory.

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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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Safety data sheet
Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 26.12.2019

Version number 1

Revision: 26.12.2019

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:** Household & Industrial power
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:** SHENZHEN BETTERPOWER BATTERY CO.,LTD
- **Full address:**
NO.11 BLDG, TONGFU VILLAGE INDUSTRIAL ZONE DALANG, LONGHUA DISTRICT, SHENZHEN, CHINA.
- **Phone number:** +86- 0755-28078088
- **Email:** cs03@betterpower.com.cn
- **Only Representative / other EU contact point:** Not available
- **Further information obtainable from:** SHENZHEN BETTERPOWER BATTERY CO.,LTD
- **1.4 Emergency telephone number:**
GERMANY
Poison Center Berlin - Institute of Toxicology
Tel: +49 030 192 40
- **1.5 Reference Number:** CANEC1924549202, CP19-065562
- **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.



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 H350i May cause cancer by inhalation.
 Repr. 1B H360D May damage the unborn child.
 STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.
 Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
 Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2 H319 Causes serious eye irritation.

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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**



GHS02 GHS07 GHS08 GHS09

· **Signal word** *Danger*

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

nickel dihydroxide
nickel powder (particle diameter < 1 mm)
cobalt
potassium hydroxide

· **Hazard statements**

H228 Flammable solid.
H302 Harmful if swallowed.
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.
H350i May cause cancer by inhalation.
H360D May damage the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very 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.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

EUH014 Reacts violently with water.
Restricted to professional users.

· **2.3 Other hazards:**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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· **vPvB:** 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: 028-002-01-4	nickel powder (particle diameter < 1 mm) ☠ Carc. 2, H351; STOT RE 1, H372; ⚠ Skin Sens. 1, H317; Aquatic Chronic 3, H412	35.5%
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	28.5%
CAS: 7439-91-0 EINECS: 231-099-0	Lanthanum ⚠ Flam. Sol. 1, H228	12.5%
CAS: 7440-45-1 EINECS: 231-154-9	cerium ⚠ Flam. Sol. 1, H228	11.0%
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	7.6%
CAS: 7439-96-5 EINECS: 231-105-1	manganese ⚠ Flam. Sol. 2, H228	3.0%
CAS: 1310-58-3 EINECS: 215-181-3 Index number: 019-002-00-8	potassium hydroxide ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302	1.0%
CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6	sodium hydroxide ⚠ Skin Corr. 1A, H314	0.5%
CAS: 1310-65-2 EINECS: 215-183-4	Lithium hydroxide ⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	0.3%
CAS: 7440-00-8 EINECS: 231-109-3	neodymium ⚠ Flam. Sol. 2, H228; Water-react. 1, H260	0.1%

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. If symptoms persist, consult a doctor.

· **After swallowing:** Call for a doctor immediately.· **4.2 Most important symptoms and effects, both acute and delayed:**

No further relevant information available.

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- **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:**
Extinguishing powder. Do not use water.
CO₂. Do not use water.
Sand. Do not use water.
Special powder for metal fires. Do not use water.
CO₂, sand, extinguishing powder. Do not use water.
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** *Water*
- **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:**
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **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:**
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 ignition sources away - Do not smoke.
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:** *Not required.*
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

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· 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) (35.5%)**

WEL (Great Britain)	Long-term value: 0.5 mg/m ³ as Ni; Sk; Carc
AGW (Germany)	Long-term value: 0.006A; 0.030E* mg/m ³ 8(II);AGS, 24, Sh, Y, 10*, 31*
VME (France)	Long-term value: 1 mg/m ³ C2

12054-48-7 nickel dihydroxide (28.5%)

WEL (Great Britain)	Long-term value: 0.5 mg/m ³ as Ni; Sk; Carc
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
VME (France)	Long-term value: 1 mg/m ³ C1A, M2, R1B

7440-48-4 cobalt (7.6%)

WEL (Great Britain)	Long-term value: 0.1 mg/m ³ as Co; Carc, Sen
MAK (Germany)	einatembare Fraktion; vgl.Abschn.XIII

7439-96-5 manganese (3.0%)

IOELV (EU)	Long-term value: 0.2* 0.05** mg/m ³ as Mn; *inhalable, **respirable fraction
WEL (Great Britain)	Long-term value: 0.2* 0.05** mg/m ³ as Mn *inhalable fraction **respirable fraction
AGW (Germany)	Long-term value: 0.02A; 0.2E mg/m ³ 8(II);DFG,Y,10, 20

1310-58-3 potassium hydroxide (1.0%)

WEL (Great Britain)	Short-term value: 2 mg/m ³
VME (France)	Short-term value: 2 mg/m ³

1310-73-2 sodium hydroxide (0.5%)

WEL (Great Britain)	Short-term value: 2 mg/m ³
MAK (Germany)	vgl.Abschn.IIb
VME (France)	Long-term value: 2 mg/m ³

1310-65-2 Lithium hydroxide (0.3%)

WEL (Great Britain)	Short-term value: 1 mg/m ³
MAK (Germany)	vgl. Abschn. IIb

· **Regulatory information**

WEL (Great Britain): EH40/2018
 AGW (Germany): TRGS 900
 VME (France): ED 984, 10.2016
 MAK (Germany): MAK- und BAT-Liste
 IOELV (EU): (EU) 2017/164

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- **DNELs:** Not available
- **PNECs:** Not available

· Ingredients with biological limit values:	
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

- **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 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.
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.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· Appearance

Form: Solid, cylindrical (sealed unit)

Colour: Silver grey

· 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

· Flash point: Not available

· Flammability (solid, gas): Contact with water liberates extremely flammable gases.

· Auto-ignition temperature: Not available

· Decomposition temperature: Not available

· Self-igniting: Product is not selfigniting.

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

· Explosion limits

Lower: Not available

Upper: Not available

· Oxidising 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

· 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: Contact with water releases flammable gases.

· 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 toxicological effects**

· **Acute toxicity**

Harmful if swallowed.

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

7440-48-4 cobalt

Oral	LD50	6,170 mg/kg (rat)
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7439-96-5 manganese

Oral	LD50	9,000 mg/kg (rat)
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· **Skin corrosion/irritation:**

Causes skin irritation.

· **Serious eye damage/irritation:**

Causes serious eye irritation.

· **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 by inhalation.

· **Reproductive toxicity**

May damage the unborn child.

· **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.

· **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 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

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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	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:	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 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
· 14.8 Transport/Additional information:	Referring to the Certification for Safe Transport of Chemical Goods (Report No. 2020014782) issued by Shanghai Research Institute of Chemical Industry Testing Co., Ltd, the product is not restricted under IATA Dangerous Goods Regulations (DGR) 61st Edition Special Provision A199 (Effective Date: 2020-01-01) (upon supplier's information).
· IMDG	
· Limited quantities (LQ)	0

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· **Exempted quantities (EQ)**

Code: E0

Not permitted as Exempted Quantity

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· **MAK(German Maximum Workplace Concentration)**

7440-02-0	nickel powder (particle diameter < 1 mm)	1
12054-48-7	nickel dihydroxide	1
7440-48-4	cobalt	2

· **Directive 2012/18/EU**· **Named dangerous substances - ANNEX I** None of the ingredients is listed.· **Seveso category**

E1 Hazardous to the Aquatic Environment

O1 Substances or mixtures with hazard statement EUH014

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t· **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.

· **Waterhazard class:** Water hazard class 3 (Self-assessment): extremely hazardous for water.· **Other regulations, limitations and prohibitive regulations**· **SVHC Candidate List of REACH Regulation Annex XIV Authorisation (16/7/2019)**

None of the ingredients is listed

· **REACH Regulation Annex XVII Restriction (20/06/2019)**

See Section 16 for information about restriction of use.

None of the ingredients is listed

· **REACH Regulation Annex XIV Authorisation List (13/6/2017)**

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.

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.

H350i May cause cancer by inhalation.

H351 Suspected of causing cancer.

H360D May damage 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.

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H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

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

Flammable solids	Bridging principles
Acute toxicity - oral Skin corrosion/irritation Serious eye damage/eye irritation Respiratory sensitisation Skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (repeated exposure) Hazardous to the aquatic environment - short-term (acute) aquatic hazard 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 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
 Water-react. 1: Substances and mixtures which in contact with water emit flammable gases – Category 1
 Acute Tox. 4: Acute toxicity - oral – Category 4
 Skin Corr. 1A: Skin corrosion/irritation – Category 1A
 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 1Ai
 Carc. 2: Carcinogenicity – Category 2
 Repr. 1B: Reproductive toxicity – Category 1B
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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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