



## SDS Service Summary

No. SHAEC2313911901

Date: 12 Dec 2023 Page 1 of 1

SGS Job No. : SP23-021732  
Applicant : NINGBO JOHNSON NEW ELETEK CO.,LTD. / YUYAO JOHNSON ELETEK CO., LTD  
Manufacturer : NINGBO JOHNSON NEW ELETEK CO.,LTD. / YUYAO JOHNSON ELETEK CO., LTD  
Product Name : Alkaline Battery

Style No. : LR6, LR03, LR14, LR20, 4LR25, 3LR12, 6LR61, LR8D425, 27A, 23A  
Composition/Ingredient of product (as per applicant submission) : See *section 3 Composition/information on ingredients* on the SDS  
Job Receiving Date : 21 Nov 2023  
Last Information Date : 30 Nov 2023  
SDS Preparation Period : 21 Nov 2023 - 30 Nov 2023

Service Requested : Preparation of Safety Data Sheet (SDS) for the product with submitted information, with calculation of the classification and labeling requirement according to the submitted composition and 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.

Echo Cai  
Project Engineer

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

Printing date 08.12.2023

Version number 1

Revision date 08.12.2023

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

· 1.1 Product identifier

· Trade name: Alkaline Battery

· 1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the mixture: Power supply

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

NINGBO JOHNSON NEW ELETEK CO.,LTD. / YUYAO JOHNSON ELETEK CO., LTD

No Changsheng Road,Economic Development Zone,Lizhou str.,Yuyao,Zhejiang,

China /Nanmiao, Lizhou Str., Yuyao, Zhejiang, China

Tel:13958281367

E-mail:3560489350@qq.com

· Only Representative/ other EU contact point:

JYSK a/s

Soedalsparken 18 DK-8220 Brabrand

Tel: +45 8939 7500 D33

E-mail:Compliancequality@JYSK.com

· 1.4 Emergency telephone number:

Lin Dan

Tel:13958281367

DENMARK

Poison Information Centre

Tel: +45 82 12 12 12

· 1.5 Reference Number: SP23-021732; SHAEC2313911901

· 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



GHS05 corrosion

Skin Corr. 1B

H314 Causes severe skin burns and eye damage.

Eye Dam. 1

H318 Causes serious eye damage.



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.

Acute Tox. 4

H332 Harmful if inhaled.

· 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.

(Contd. on page 2)

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




Printing date 08.12.2023

Version number 1

Revision date 08.12.2023

Trade name: Alkaline Battery



(Contd. of page 1)

- **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    GHS07    GHS09
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
manganese dioxide  
potassium hydroxide
- **Hazard statements**  
H302+H332 Harmful if swallowed or if inhaled.  
H314 Causes severe skin burns and eye damage.  
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 carefully and follow all instructions.  
P260 Do not breathe dusts or mists.  
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.  
P321 Specific treatment (see on this label).  
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.
- **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: 1313-13-9 EINECS: 215-202-6 Index number: 025-001-00-3	manganese dioxide  Acute Tox. 4, H302; Acute Tox. 4, H332 substance with a Union workplace exposure limit	31.5%
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 substance with a Union workplace exposure limit	25.0%

(Contd. on page 3)

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

Printing date 08.12.2023

Version number 1

Revision date 08.12.2023

Trade name: Alkaline Battery

(Contd. of page 2)		
CAS: 7439-89-6 EINECS: 231-096-4	iron	17.0%
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7	zinc oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 substance with a Union workplace exposure limit	8.0%
CAS: 7732-18-5 EINECS: 231-791-2	Water	8.0%
CAS: 1310-58-3 EINECS: 215-181-3 Index number: 019-002-00-8	potassium hydroxide ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302 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	4.5%
CAS: 7782-42-5 EINECS: 231-955-3	Graphite substance with a Union workplace exposure limit	3.0%
CAS: 9003-07-0	polypropylene	2.0%
CAS: 7440-50-8 EINECS: 231-159-6	copper substance with a Union workplace exposure limit	1.0%

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
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.

(Contd. on page 4)

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

Printing date 08.12.2023

Version number 1

Revision date 08.12.2023

Trade name: Alkaline Battery

(Contd. of page 3)

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Mouth respiratory protective device.  
Avoid contact with eyes.  
Avoid contact with skin.  
Avoid formation of dust.  
Ensure adequate ventilation.  
Keep away from ignition sources.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Use neutralising agent.  
Pick up mechanically.  
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**  
Prevent short cut and movement which could lead to short circuits.  
Avoid contact with eyes and skin.  
Keep away from heat and direct sunlight.  
Keep receptacles tightly sealed.  
Open and handle receptacle with care.  
Prevent formation of dust.  
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.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Store only in the original receptacle.  
Protect from humidity and water.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from flammable substances.  
Do not store together with oxidising and acidic materials.
- **Further information about storage conditions:**  
Keep container tightly sealed.

(Contd. on page 5)

**Trade name:** Alkaline Battery

(Contd. of page 4)

*Store in cool, dry conditions in well sealed receptacles.*

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: 1313-13-9 manganese dioxide**

<i>IOELV (EU)</i>	<i>Long-term value: 0.2* 0.05** mg/m³ as Mn; *inhalable, **respirable fraction</i>
<i>AGW (Germany)</i>	<i>Long-term value: 0.02A; 0.2E mg/m³ 8(II);DFG,Y,10, 20</i>
<i>GV (Denmark)</i>	<i>Long-term value: 0.2* 0.05** mg/m³ E, som Mn; *inhalerbar **respirabel</i>
<i>VLEP (France)</i>	<i>Long-term value: 0.05* 0.20** mg/m³ *fraction alvéolaire **inhalable; en manganèse</i>
<i>OEL (Ireland)</i>	<i>Long-term value: 0.2* 0.05** mg/m³ as Mn; IOELV; *inhalable **respirable</i>

**CAS: 7440-66-6 zinc powder -zinc dust (stabilized)**

MAK (Germany)	Long-term value: $0.1A * 2E^{**}$ mg/m <sup>3</sup> *alveolengängig; **einatembare
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**CAS: 1314-13-2 zinc oxide**

MAK (Germany)	Long-term value: 1A mg/m <sup>3</sup> Rauch
GV (Denmark)	Long-term value: 4 mg/m <sup>3</sup>
VLEP (France)	Long-term value: 5* 10** mg/m <sup>3</sup> *fumées **poussières
OEL (Ireland)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 2* mg/m <sup>3</sup> *respirable fraction

**CAS: 1310-58-3 potassium hydroxide**

<i>GV (Denmark)</i>	<i>Ceiling limit: 2 mg/m<sup>3</sup></i> <i>L</i>
<i>VLEP (France)</i>	<i>Short-term value: 2 mg/m<sup>3</sup></i>
<i>OEL (Ireland)</i>	<i>Short-term value: 2 mg/m<sup>3</sup></i>

**CAS: 7782-42-5 Graphite**

AGW (Germany)	Long-term value: $1.25 \cdot 10^{**} \text{ mg/m}^3$ 2(II); *alveolengängig**eintembar; AGS, DFG, Y
GV (Denmark)	Long-term value: $2.5 \text{ mg/m}^3$ naturlig, respirabel
VLEP (France)	Long-term value: $2 \text{ mg/m}^3$ pour la fraction alvéolaire
OEL (Ireland)	Long-term value: $2 \text{ mg/m}^3$ respirable fraction

**CAS: 7440-50-8 copper**

MAK (Germany)	Long-term value: 0.01 A mg/m <sup>3</sup> als Cu
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(Contd. on page 6)

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

Printing date 08.12.2023

Version number 1

Revision date 08.12.2023

Trade name: Alkaline Battery

(Contd. of page 5)

GV (Denmark)	Long-term value: 1.0* 0.1** mg/m <sup>3</sup> *pulver, støv; **røg, som Cu
VLEP (France)	Short-term value: 2** mg/m <sup>3</sup> Long-term value: 0.2* 1** mg/m <sup>3</sup> *fumées **poussières, en Cu
OEL (Ireland)	Long-term value: 0.2* 1** mg/m <sup>3</sup> *fume **dusts and mists

- **Regulatory information**  
IOELV (EU): (EU) 2019/1831  
AGW (Germany): TRGS 900  
GV (Denmark): BEK nr 2203 af 29/11/2021  
VLEP (France): ED 1487 05.2021  
OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work  
MAK (Germany): MAK- und BAT-Liste
- **DNELs:** Data not available
- **PNECs:** Data not available

· **Ingredients with biological limit values:**

<b>CAS: 1313-13-9 manganese dioxide</b>	
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.  
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.

(Contd. on page 7)



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


Printing date 08.12.2023

Version number 1

Revision date 08.12.2023

Trade name: Alkaline Battery

(Contd. of page 6)

- **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.
- **Eyeface 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:** Silvery
  - **Odour:** Odorless
  - **Odour threshold:** Data not available
  - **Melting point/freezing point:** Data not available
  - **Boiling point or initial boiling point and boiling range** Data not available
  - **Flammability** Data not available
  - **Lower and upper explosion limit**
  - **Lower:** Data not available
  - **Upper:** Data not available
  - **Flash point:** Data not available
  - **Auto-ignition temperature:** Data not available
  - **Decomposition temperature:** Data not available
  - **pH** Data not available
  - **Viscosity:**
  - **Kinematic viscosity** Data not available
  - **Dynamic viscosity:** Data not available
  - **Solubility**
  - **water:** Data not available
  - **Partition coefficient n-octanol/water (log value)** Data not available
  - **Vapour pressure:** Data not available
  - **Density and/or relative density**
  - **Density:** Data not available
  - **Relative density:** Data not available
  - **Vapour density:** Data not available
  - **Particle characteristics:** Data 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

(Contd. on page 8)



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

Printing date 08.12.2023

Version number 1

Revision date 08.12.2023

Trade name: Alkaline Battery

(Contd. of page 7)

· <b>Pyrophoric liquids</b>	Not applicable
· <b>Pyrophoric solids</b>	Not applicable
· <b>Self-heating substances and mixtures</b>	Not applicable
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Not applicable
· <b>Oxidising liquids</b>	Not applicable
· <b>Oxidising solids</b>	Not applicable
· <b>Organic peroxides</b>	Not applicable
· <b>Corrosive to metals</b>	Not applicable
· <b>Desensitised explosives</b>	Not applicable
· <b>Other safety characteristics</b>	Data not available

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **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 hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if swallowed or if inhaled.
- **LD/LC50 values relevant for classification:**

CAS: 7439-89-6 iron		
Oral	LD50	30,000 mg/kg (rat)
CAS: 1314-13-2 zinc oxide		
Oral	LD50	>5,000 mg/kg (rat)
- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **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** Based on available data, the classification criteria are not met.
- **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.
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- **Other information** No further relevant information available.

SECTION 12: Ecological information

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

(Contd. on page 9)

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

Printing date 08.12.2023

Version number 1

Revision date 08.12.2023

Trade name: Alkaline Battery

(Contd. of page 8)

- **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.
- **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

· <b>14.1 UN number or ID number</b> · <b>ADR/RID/ADN, IMDG, IATA</b>	Not applicable
· <b>14.2 UN proper shipping name</b> · <b>ADR/RID/ADN, IMDG, IATA</b>	Not applicable
· <b>14.3 Transport hazard class(es)</b> · <b>ADR/RID/ADN, IMDG, IATA</b> · <b>Class</b> · <b>Label</b>	Not applicable Not applicable
· <b>14.4 Packing group</b> · <b>ADR/RID/ADN, IMDG, IATA</b>	Not applicable
· <b>14.5 Environmental hazards</b>	Not applicable.
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>14.8 Transport/Additional information:</b>	
· <b>UN "Model Regulation":</b>	Not applicable
· <b>Remark</b>	Referring to the Certification for Safe Transport of Chemical Goods issued by Shanghai Institute of Chemical Industry Testing Co., Ltd (No.202200414114919), Alkaline Battery (LR6 AA) is not subject to IMO IMDG Code (upon applicant's information).

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(Contd. on page 10)

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

Printing date 08.12.2023

Version number 1

Revision date 08.12.2023

Trade name: Alkaline Battery

(Contd. of page 9)

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 E1 Hazardous to the Aquatic Environment

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

· 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 (10/6/2022)

None of the ingredients is listed.

· REACH Regulation Annex XVII Restriction (13/12/2021)

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

· Relevant hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

(Contd. on page 11)

**Trade name:** Alkaline Battery

(Contd. of page 10)

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

Acute toxicity - oral  
Acute toxicity - inhalation  
Skin corrosion/irritation  
Serious eye damage/eye irritation  
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 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 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.*

**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  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Corr. 1A: Skin corrosion/irritation – Category 1A  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 Eye Dam. 1: Serious eye damage/eye irritation – 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

*End of document*