



SDS Report

No.: CANEC2002190301

Date: 13 Mar 2020

Page 1 of 1

NINGHAI HENGJIU BATTERY CO.,LTD

NO.158-1 XIDIAN SOUTH ROAD, XIDIAN TOWN, NINGHAI CITY, ZHEJIANG, CHINA

SGS Job No. : CP20-004974
Sample Name : R03(AAA) dry battery
End Uses : Low voltage power supply
Composition/Ingredient of sample (as per client submission) : See *section 3 Composition/information on ingredients* on the SDS report
Job Receiving Date : 05 Mar 2020
SDS Preparation Period : 05 Mar 2020-11 Mar 2020
Service Requested : Safety Data Sheet (SDS) for the sample with submitted composition.
Summary : As per request, the contents and formats of the SDS are prepared in accordance with US Regulations Relating to Labor 29 CFR 1910.1200, and is provided per attached.

Remark:

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

* This sample is likely to be classified as article and is out of scope of a SDS as set out in 29 CFR Part 1910.1200. This SDS is generated for client's reference only.

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

Zm guan
Approved Signatory



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

29 CFR 1910.1200

Printing date 03/11/2020


Version number 1


Reviewed on 03/06/2020

1 Identification

- **Product identifier**
- **Trade name:** R03(AAA) dry battery
- **Recommended use of the chemical and restrictions on use:**
- **Application of the substance / the preparation:** Low voltage power supply
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** NINGHAI HENGJIU BATTERY CO.,LTD
- **Full address:** NO.158-1 XIDIAN SOUTH ROAD, XIDIAN TOWN, NINGHAI CITY, ZHEJIANG, CHINA
- **Phone number:** +86-574-65177199
- **Email:** 50492343@qq.com
- **Other U.S. contact point:** Not available
- **Further information obtainable from:** NINGHAI HENGJIU BATTERY CO.,LTD
- **Emergency telephone number:**
Poison Center
Tel: +1 800 222 1222
- **Reference Number:** CANEC2002190301,CP20-004974
- **Remark:**
* This sample is likely to be classified as article product and is out of scope of a SDS as set out in 29 CFR Part 1910.1200. This SDS is generated for client's reference only.

2 Hazard(s) identification

- **Classification of the substance or mixture**
Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)
- 
 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 labeled due to the calculation procedure of OSHA Hazard Communication Standard (29 CFR 1910.1200).
- **Classification system:**
The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.
- **Label elements**
- **Labelling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**
- **Hazard pictograms**
- 
 GHS07
- **Signal word** Warning
- **Hazard-determining components of labeling:**
manganese dioxide
ammonium chloride
- **Hazard statements**
H302+H332 Harmful if swallowed or if inhaled.
- **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapors/spray

(Contd. on page 2)

USA

Safety Data Sheet

29 CFR 1910.1200

Printing date 03/11/2020

Version number 1

Reviewed on 03/06/2020

Trade name: R03(AAA) dry

(Contd. of page 1)

- P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
 P330 Rinse mouth.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Hazards not otherwise classified (HNOC)** No further relevant information available.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:**

Mixture of the substances listed below with nonhazardous additions.

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

· **Composition:**

1313-13-9	manganese dioxide	Acute Tox. 4, H302; Acute Tox. 4, H332	48%
7440-66-6	zinc		35%
7440-44-0	carbon		10%
12125-02-9	ammonium chloride	Acute Tox. 4, H302; Eye Irrit. 2A, H319	7%

4 First-aid measures

· **Description of first aid measures**

· **General description:**

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:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** Immediately call a doctor.

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

· **Special hazards arising from the substance or mixture:** No further relevant information available.

· **Special protective equipment and precautions for firefighters**

· **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures:** Not required.

(Contd. on page 3)

USA

Safety Data Sheet

29 CFR 1910.1200

Printing date 03/11/2020

Version number 1

Reviewed on 03/06/2020

Trade name: R03(AAA) dry

(Contd. of page 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.

- **Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

7 Handling and storage

- **Precautions for safe handling:**

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

For the general occupational hygienic measures refer to Section 8.

- **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities**

- **Requirements to be met by storerooms and receptacles:** No special requirements.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls/personal protection

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

1313-13-9 manganese dioxide (48%)

PEL (USA) Ceiling limit value: 5 mg/m³
as Mn

REL (USA) Short-term value: 3 mg/m³
Long-term value: 1 mg/m³
as Mn

TLV (USA) Long-term value: 0.02* 0.1** mg/m³
as Mn; *respirable **inhalable fraction

12125-02-9 ammonium chloride (7%)

REL (USA) Short-term value: 20 mg/m³
Long-term value: 10 mg/m³

TLV (USA) Short-term value: 20 mg/m³
Long-term value: 10 mg/m³

- **Regulatory information**

PEL (USA): Guide to Occupational Exposure Values (OSHA PELs)

REL (USA): Guide to Occupational Exposure Values (NIOSH RELs)

TLV (USA): Guide to Occupational Exposure Values (ACGIH)

- **Additional information:** The lists that were valid during the creation were used as basis.

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

- **Appropriate engineering controls:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

See Section 7 for information about design of technical facilities.

- **Personal protective equipment:**

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

(Contd. on page 4)

Safety Data Sheet

29 CFR 1910.1200

Printing date 03/11/2020

Version number 1

Reviewed on 03/06/2020

Trade name: R03(AAA) dry

(Contd. of page 3)

· 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: Not required.

9 Physical and chemical properties

· General Information**· Appearance:**

Form:	Solid
Color:	Black
Odor:	Odorless
Odor threshold:	Not available

· pH-value: Not available

· Change in condition

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

· Flash point: Not available

· Flammability (solid, gaseous): Not available

· Auto-Ignition temperature: Not available

· Decomposition temperature: Not available

· Explosion limits:

Lower:	Not available
Upper:	Not available

· Vapor pressure: Not available

· Density: Not available

· Relative density: Not available

· Vapor density: Not available

· Evaporation rate: Not available

· Solubility in / Miscibility with

Water: Not available

· Partition coefficient (n-octanol/water): Not available

· Viscosity:

Dynamic: Not available

(Contd. on page 5)

USA

Safety Data Sheet

29 CFR 1910.1200

Printing date 03/11/2020

Version number 1

Reviewed on 03/06/2020

Trade name: R03(AAA) dry

(Contd. of page 4)

Kinematic:	Not available
Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity:** Data not available
- **Chemical stability:** Data not available
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

12125-02-9 ammonium chloride

Oral LD50 1,650 mg/kg (rat)

- **Skin corrosion/irritation:** Irritating effect possible.
- **Serious eye damage/irritation:** Irritating effect possible.
- **Respiratory or skin sensitization:**
Sensitization possible.
- **Additional toxicological information:** Harmful

- **Carcinogenic categories**

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

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Other adverse effects** No further relevant information available.

USA

(Contd. on page 6)

Safety Data Sheet

29 CFR 1910.1200

Printing date 03/11/2020

Version number 1

Reviewed on 03/06/2020



Trade name: R03(AAA) dry

(Contd. of page 5)

13 Disposal considerations

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

14 Transport information

<ul style="list-style-type: none"> · UN-Number · DOT, IMDG, IATA 	UN3077
<ul style="list-style-type: none"> · UN proper shipping name · DOT · IMDG · IATA 	Environmentally hazardous substance, solid, n.o.s. (zinc) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc)
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT, IMDG, IATA <div>   </div> <ul style="list-style-type: none"> · Class · Label 	9 Miscellaneous dangerous substances and articles 9
<ul style="list-style-type: none"> · Packing group · DOT, IMDG, IATA 	III
<ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: · Special marking (IATA): 	Yes (DOT) Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none"> · Special precautions for user · EMS Number: · Stowage Category · Stowage Code 	Warning: Miscellaneous dangerous substances and articles F-A,S-F A SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 	Not applicable
<ul style="list-style-type: none"> · Transport/Additional information: · DOT · Quantity limitations · Remarks: · IMDG · Limited quantities (LQ) 	On passenger aircraft/rail: No limit On cargo aircraft only: No limit Special marking with the symbol (fish and tree). 5 kg

(Contd. on page 7)

USA

Safety Data Sheet

29 CFR 1910.1200

Printing date 03/11/2020

Version number 1

Reviewed on 03/06/2020

Trade name: R03(AAA) dry

(Contd. of page 6)

· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC), 9, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Sara**· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

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

1313-13-9 manganese dioxide

7440-66-6 zinc

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Proposition 65**· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **New Jersey Right-to-Know List:**

7440-66-6 zinc

12125-02-9 ammonium chloride

· **New Jersey Special Hazardous Substance List:**

7440-66-6 zinc

F3, R1

· **Pennsylvania Right-to-Know List:**

7440-66-6 zinc

12125-02-9 ammonium chloride

· **Pennsylvania Special Hazardous Substance List:**

7440-66-6 zinc

E

12125-02-9 ammonium chloride

E

· **Carcinogenicity categories**· **EPA (Environmental Protection Agency)**

1313-13-9 manganese dioxide

D

7440-66-6 zinc

D, I, II

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

(Contd. on page 8)

USA

Safety Data Sheet

29 CFR 1910.1200

Printing date 03/11/2020

Version number 1

Reviewed on 03/06/2020

Trade name: R03(AAA) dry

(Contd. of page 7)

· NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

16 Other information

· **Relevant hazard statements**

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

· *****

The contents and format of this SDS are in accordance with 29 CFR 1910.1200.

DISCLAIMER OF LIABILITY

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Remark:

* This sample is likely to be classified as article product and is out of scope of a SDS as set out in 29 CFR Part 1910.1200. This SDS is generated for client's reference only.

· **Date of preparation / last revision** 03/11/2020 / -

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

Acute Tox. 4: Acute toxicity – Category 4

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

· *****

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USA