

Safety Data Sheet

29 CFR 1910.1200

Effective Date : 01/01-2024

Trade Name : Zinc Chloride Dry Battery (No Lead Added)

1 Identification

• Product identifier

• Trade name : Zinc Chloride Dry Battery (No Lead Added)

• Item No.:

SUM1/EXTRA、SUM1/SUPER、SUM2/EXTRA、SUM2/SUPER、SUM3/EXTRA、SUM3/SUPER、SUM4/EXTRA、SUM4/SUPER、SUM5/EXTRA、SUM9V/EXTRA、SUM9V/SUPER

• Recommended use of the chemical and restrictions on use :

• Application of the substance / the preparation : Electronic products

• Details of the supplier of the safety data sheet

• Manufacturer/Supplier :

CHUNG PAK BATTERY WORKS LIMITED

CHUNG PAK (GUANG DONG) BATTERY INDUSTRIAL CO., LTD

• Full address :

UNIT B, 2/F., WAH SHUN INDUSTRIAL BUILDING, No.4 CHO YUEN STREET, YAU TONG BAY, KOWLOON, HONGKONG

GANCUN SECTION FOCHEN ROAD CHEN CUN COUNTY SHUNDE DISTRICT
FOSHAN CITY GUANGDONG PROVINCE CHINA

• Phone number :

852-27171338

Fax : 852 2772 7727

• Email : vinnic@chungpak.com

• Other US contact point : No available

• Further information obtainable from :

CHUNG PAK BATTERY WORKS LIMITED

CHUNG PAK (GUANG DONG) BATTERY INDUSTRIAL CO., LTD

• Emergency telephone number :

USA Poison Center Tel: +1 800 222 1222

+86-757-23312338 Bobo

• Remark :

*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.

2 Hazard(s) identification

• Classification of the substance or mixture

Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)



GHS05 Corrosion

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



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.

(Contd. on page 2)

Safety Data Sheet

29 CFR 1910.1200

Effective Date : 01/01-2024

Trade Name : Zinc Chloride Dry Battery (No Lead Added)

(Contd. on page 1)

• **Label elements**

• **Labeling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**

• **Hazard pictograms**



GHS05 GHS07

• **Signal word : Danger**

• **Hazard-determining components of labeling :**

manganese dioxide

• **Hazard statements**

H302+H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage.

• **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.

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/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.

• **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 listed risk phrases refer to section 16.

• Composition:		
1313-13-9	manganese dioxide  Acute Tox.4, H302; Acute Tox. 4, H332	22.8-25.7%
7439-89-6	iron	17.4-23.8%
7440-66-6	zinc	16.8-19.3%
7732-18-5	water	14.1-16.2%
1333-86-4	carbon black	11.1-15.5%
7646-85-7	zinc chloride	5.3-5.8%
12125-02-9	ammonium chloride	0.02-0.25%
9004-34-6	Cellulose	0.6-0.74%
9002-88-4	PE	0.97-1.26%
9003-07-0	PP	0.14-0.17%
9002-86-2	PVC	0.77-1.28%

(Contd. on page 3)

Safety Data Sheet

29 CFR 1910.1200

Effective Date : 01/01-2024

Trade Name : Zinc Chloride Dry Battery (No Lead Added)

(Contd. on page 2)

• Remark :

zinc (CAS: 7440-66-6)

Note: Zn

manganese dioxide (CAS: 1313-13-9)

Note: MnO₂

carbon black (CAS: 1333-86-4)

Note: C

iron (CAS: 7439-89-6)

Note: Fe

zinc chloride (CAS: 7646-85-7)

Note: ZnCl₂

ammonium chloride (CAS: 12125-02-9)

Note: NH₄Cl₂

water (CAS: 7732-18-5)

Note: H₂O

Cellulose (CAS: 9004-34-6)

Note: Paper

Polyethylene (CAS: 9002-88-4)

Note: PE

Polypropylene(CAS: 9003-07-0)

Note: PP

Polyvinyl chloride (CAS: 9002-86-2)

Note: PVC

4 First-aid measures

• 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. 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. Then consult a doctor.

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

• After swallowing:

Do not induce vomiting; immediately call for medical help.

Drink copious amounts of water and provide fresh air. 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:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

(Contd. on page 4)

Safety Data Sheet

29 CFR 1910.1200

Effective Date : 01/01-2024

Trade Name : Zinc Chloride Dry Battery (No Lead Added)

(Contd. on page 3)

- **Special protective equipment and precautions for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Precautions for safe handling:**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **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.
- **Specific end use(s):** No further relevant information available.

8 Exposure controls / personal protection

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

1313-13-9 manganese dioxide (22.8-25.7%)

PEL (USA)	Ceiling limit value: 5mg/m ³ as Mn
REL (USA)	Short-term value: 3mg/m ³ Long-term value: 1mg/m ³ as Mn
TLV (USA)	Long-term value: 0.02*0.1* mg/m ³ as Mn; * respirable **inhalable fraction

9004-34-6 Cellulose (0.6-0.74%)

PEL (USA)	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV(USA)	Long-term value: 10mg/m ³

(Contd. on page 5)

Safety Data Sheet

29 CFR 1910.1200

Effective Date : 01/01-2024

Trade Name : Zinc Chloride Dry Battery (No Lead Added)

(Contd. on page 4)

- **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:**
 - Wash clothing and shoes before reuse.
 - 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.

- **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.

- **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

9 Physical and chemical properties

- **General Information**

- **Appearance:**

Form: Cylindrical
Color: Black, Red

- **Odor:** Odorless

- **Odour threshold:** Not available

- **pH-value:** Not available

- **Change in condition**

Melting point/ Melting range: Not available

Freezing point: Not available

Boiling point/ Boiling range: Not available

- **Flash point:** Not available

(Contd. on page 6)

Safety Data Sheet

29 CFR 1910.1200

Effective Date : 01/01-2024

Trade Name : Zinc Chloride Dry Battery (No Lead Added)

(Contd. on page 5)

• 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
• 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
• Other information	Voltage 1.5V

10 Stability and reactivity

- **Reactivity:** Data not available
- **Chemical stability:** Stable under normal operating and storage conditions.
- **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:		
7439-89-6 iron		
Oral	LD50	30000 mg/kg (rat)
9004-34-6 Cellulose		
Oral	LD50	>5000 mg/kg (rat)

• **Primary irritant effect:**

- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.

• **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful
Corrosive

(Contd. on page 7)

Safety Data Sheet

29 CFR 1910.1200

Effective Date : 01/01-2024

Trade Name : Zinc Chloride Dry Battery (No Lead Added)

(Contd. on page 6)

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

• 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.

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

- Zinc Chloride Dry Battery (No Lead Added) is exempt from dangerous goods. It is considered non-dangerous goods by the international Civil Aviation Organization (ICAO), the International Air Transport Association (IATA), International Maritime Dangerous Goods regulations (IMDG), the «Recommendations on the Transport of Dangerous Goods Model Regulations» and also is not classified as dangerous goods under the 65th Edition of the IATA Dangerous Good Regulation 2024 Special Provision A123.
Separate batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport.
Transport Fashion: By air, by sea, by road.

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

• Section 335 (extremely hazardous substances):

None of the ingredients is listed.

(Contd. on page 7)

Safety Data Sheet

29 CFR 1910.1200

Effective Date : 01/01-2024

Trade Name : Zinc Chloride Dry Battery (No Lead Added)

(Contd. on page 7)

. Section 313 (specific toxic chemical listings):

1313-13-9	manganese dioxide
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. TSCA (Toxic Substances Control Act):

1313-13-9	manganese dioxide
7439-89-6	iron
7732-18-5	water
9004-34-6	Cellulose

. Proposition 65

. Chemical 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.

. Cancerogenity categories

. EPA (Environmental Protection Agency)

1313-13-9	manganese dioxide	D
7440-66-6	zinc	II

. TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

. NIOSH-Ca (National Institution for Occupational Safety & Health)

None of the ingredients is listed.

16 Other information

NFPA ratings (scale 0-4)



Health = 3
Fire = 0
Reactivity = 0

. HMIS ratings (scale 0-4)



Health = 4
Fire = 0
Reactivity = 0

(Contd. on page 9)

Safety Data Sheet

29 CFR 1910.1200

Effective Date : 01/01-2024

Trade Name : Zinc Chloride Dry Battery (No Lead Added)

(Contd. on page 8)

• **Relevant phrases**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

• *****

The contents and format of this SDS are in accordance with 29 CFR 1910.1200 (g)

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 anyway 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 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 2024.01.01/-**

• **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

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Eye Dam . 1: Serious eye damage/eye irritation, Hazard Category 1

• *****

End of document

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1 Identification

• **Product identifier**

• **Trade name : Zinc Chloride Dry Battery (No Lead Added)**

• **Item No.:**

SUM1/EXTRA、SUM1/SUPER、SUM2/EXTRA、SUM2/SUPER、SUM3/EXTRA、SUM3/SUPER、SUM4/EXTRA、SUM4/SUPER、SUM5/EXTRA、SUM9V/EXTRA、SUM9V/SUPER

• **Recommended use of the chemical and restrictions on use :**

• **Application of the substance / the preparation :** Electronic products

• **Details of the supplier of the safety data sheet**

• **Manufacturer/Supplier :**

CHUNG PAK BATTERY WORKS LIMITED

CHUNG PAK (GUANG DONG) BATTERY INDUSTRIAL CO., LTD

• **Full address :**

UNIT B, 2/F., WAH SHUN INDUSTRIAL BUILDING, No.4 CHO YUEN STREET, YAU TONG BAY, KOWLOON, HONGKONG

GANCUN SECTION FOCHEN ROAD CHEN CUN COUNTY SHUNDE DISTRICT

FOSHAN CITY GUANGDONG PROVINCE CHINA

• **Phone number :**

852-27171338

Fax : 852 2772 7727

• **Email :** vinnic@chungpak.com

• **Other US contact point :** No available

• **Further information obtainable from :**

CHUNG PAK BATTERY WORKS LIMITED

CHUNG PAK (GUANG DONG) BATTERY INDUSTRIAL CO., LTD

• **Emergency telephone number :**

USA Poison Center Tel: +1 800 222 1222

+86-757-23312338 Bobo

• **Remark :**

*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.

2 Hazard(s) identification

• **Classification of the substance or mixture**

Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)



GHS05 Corrosion

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



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.

(Contd. on page 2)

Safety Data Sheet

29 CFR 1910.1200

Effective Date : 01/01-2024

Trade Name : Zinc Chloride Dry Battery (No Lead Added)

(Contd. on page 1)

• **Label elements**

• **Labeling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**

• **Hazard pictograms**



GHS05 GHS07

• **Signal word : Danger**

• **Hazard-determining components of labeling :**

manganese dioxide

• **Hazard statements**

H302+H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage.

• **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.

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/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.

• **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 listed risk phrases refer to section 16.

• Composition:		
1313-13-9	manganese dioxide  Acute Tox.4, H302; Acute Tox. 4, H332	22.8-25.7%
7439-89-6	iron	17.4-23.8%
7440-66-6	zinc	16.8-19.3%
7732-18-5	water	14.1-16.2%
1333-86-4	carbon black	11.1-15.5%
7646-85-7	zinc chloride	5.3-5.8%
12125-02-9	ammonium chloride	0.02-0.25%
9004-34-6	Cellulose	0.6-0.74%
9002-88-4	PE	0.97-1.26%
9003-07-0	PP	0.14-0.17%
9002-86-2	PVC	0.77-1.28%

(Contd. on page 3)

Safety Data Sheet

29 CFR 1910.1200

Effective Date : 01/01-2024

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(Contd. on page 2)

• Remark :

zinc (CAS: 7440-66-6)

Note: Zn

manganese dioxide (CAS: 1313-13-9)

Note: MnO₂

carbon black (CAS: 1333-86-4)

Note: C

iron (CAS: 7439-89-6)

Note: Fe

zinc chloride (CAS: 7646-85-7)

Note: ZnCl₂

ammonium chloride (CAS: 12125-02-9)

Note: NH₄Cl₂

water (CAS: 7732-18-5)

Note: H₂O

Cellulose (CAS: 9004-34-6)

Note: Paper

Polyethylene (CAS: 9002-88-4)

Note: PE

Polypropylene(CAS: 9003-07-0)

Note: PP

Polyvinyl chloride (CAS: 9002-86-2)

Note: PVC

4 First-aid measures

• 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. 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. Then consult a doctor.

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

• After swallowing:

Do not induce vomiting; immediately call for medical help.

Drink copious amounts of water and provide fresh air. 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:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

(Contd. on page 4)

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Effective Date : 01/01-2024

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(Contd. on page 3)

- **Special protective equipment and precautions for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Precautions for safe handling:**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **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.
- **Specific end use(s):** No further relevant information available.

8 Exposure controls / personal protection

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

1313-13-9 manganese dioxide (22.8-25.7%)

PEL (USA)	Ceiling limit value: 5mg/m ³ as Mn
REL (USA)	Short-term value: 3mg/m ³ Long-term value: 1mg/m ³ as Mn
TLV (USA)	Long-term value: 0.02*0.1* mg/m ³ as Mn; * respirable **inhalable fraction

9004-34-6 Cellulose (0.6-0.74%)

PEL (USA)	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV(USA)	Long-term value: 10mg/m ³

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Safety Data Sheet

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- **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:**
 - Wash clothing and shoes before reuse.
 - 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.

- **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.

- **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

9 Physical and chemical properties

- **General Information**

- **Appearance:**

Form: Cylindrical
Color: Black, Red

- **Odor:** Odorless

- **Odour threshold:** Not available

- **pH-value:** Not available

- **Change in condition**

Melting point/ Melting range: Not available

Freezing point: Not available

Boiling point/ Boiling range: Not available

- **Flash point:** Not available

(Contd. on page 6)

Safety Data Sheet

29 CFR 1910.1200

Effective Date : 01/01-2024

Trade Name : Zinc Chloride Dry Battery (No Lead Added)

(Contd. on page 5)

. 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
. 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
. Other information	Voltage 1.5V

10 Stability and reactivity

- . Reactivity:** Data not available
- . Chemical stability:** Stable under normal operating and storage conditions.
- . 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:		
7439-89-6 iron		
Oral	LD50	30000 mg/kg (rat)
9004-34-6 Cellulose		
Oral	LD50	>5000 mg/kg (rat)

. Primary irritant effect:

- . on the skin:** Strong caustic effect on skin and mucous membranes.
- . on the eye:** Strong caustic effect.
- . Sensitization:** No sensitizing effects known.

. Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful
Corrosive

(Contd. on page 7)

Safety Data Sheet

29 CFR 1910.1200

Effective Date : 01/01-2024

Trade Name : Zinc Chloride Dry Battery (No Lead Added)

(Contd. on page 6)

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

• 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.

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

- Zinc Chloride Dry Battery (No Lead Added) is exempt from dangerous goods. It is considered non-dangerous goods by the international Civil Aviation Organization (ICAO), the International Air Transport Association (IATA), International Maritime Dangerous Goods regulations (IMDG), the «Recommendations on the Transport of Dangerous Goods Model Regulations» and also is not classified as dangerous goods under the 65th Edition of the IATA Dangerous Good Regulation 2024 Special Provision A123.
Separate batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport.
Transport Fashion: By air, by sea, by road.

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

• Section 335 (extremely hazardous substances):

None of the ingredients is listed.

(Contd. on page 7)

Safety Data Sheet

29 CFR 1910.1200

Effective Date : 01/01-2024

Trade Name : Zinc Chloride Dry Battery (No Lead Added)

(Contd. on page 7)

. Section 313 (specific toxic chemical listings):

1313-13-9	manganese dioxide
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. TSCA (Toxic Substances Control Act):

1313-13-9	manganese dioxide
7439-89-6	iron
7732-18-5	water
9004-34-6	Cellulose

. Proposition 65

. Chemical 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.

. Cancerogenity categories

. EPA (Environmental Protection Agency)

1313-13-9	manganese dioxide	D
7440-66-6	zinc	II

. TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

. NIOSH-Ca (National Institution for Occupational Safety & Health)

None of the ingredients is listed.

16 Other information

NFPA ratings (scale 0-4)



Health = 3
Fire = 0
Reactivity = 0

. HMIS ratings (scale 0-4)



Health = 4
Fire = 0
Reactivity = 0

(Contd. on page 9)

Safety Data Sheet

29 CFR 1910.1200

Effective Date : 01/01-2024

Trade Name : Zinc Chloride Dry Battery (No Lead Added)

(Contd. on page 8)

• **Relevant phrases**

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H332 Harmful if inhaled.

• *****

The contents and format of this SDS are in accordance with 29 CFR 1910.1200 (g)

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 anyway 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 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 2024.01.01/-**

• **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
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
- Eye Dam . 1: Serious eye damage/eye irritation, Hazard Category 1

• *****

End of document

SAFETY DATA SHEET

Magic Mixes – Vegetable Glycerin Liquid (VG Oil)

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is provided voluntarily as a customer service and follows the formatting described in the OSHA Hazard Communication Standard (HCS) 2012.

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

- 1.1 Product identifier**
 Magic Mixes – Vegetable Glycerin Liquid (VG Oil)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
 For use as a toy.
- 1.3 Details of the supplier of the safety data sheet**
 Moose Toys PTY LTD
 29 Grange Rd.
 Cheltenham, VIC
 Australia
 Tel: (+61) 03-9579-7377
 Fax: (+61) 03-9579-7355
 E mail: info@moosetoys.com
- 1.4 Emergency telephone number**
 In case of emergency Tel. (+61) 03-9579-7377 (8:00 AM – 5:00 PM AEST)

SECTION 2: Hazards Identification

- 2.1 Classification of the substance or mixture**
 Classification according to the OSHA Hazard Communication Standard (HCS) 2012.
 EUH208 Contains imidazolidinyl urea. May cause an allergic reaction.
- 2.2 Label elements**
 EUH208 Contains imidazolidinyl urea. May cause an allergic reaction.
 P101 If medical advice is needed, have product container or label at hand.
- 2.3 Other hazards**
 None of the components are known to be PBT or vPvB or to have endocrine disrupting properties.

SECTION 3: Composition

3.1 Substances
 Not applicable – product is a mixture

3.2 Mixtures

Name	CAS	Solution* [Unicorn Tears, VG Oil]
Water	7732-18-5	10-40

Glycerol	56-81-5	60-100
1-[1,3-bis(hydroxymethyl)-2,5-dioxoimidazolidin-4-yl]-1,3-bis(hydroxymethyl)urea	78491-02-8	< 1
3-iodo-2-propynyl butylcarbamate	55406-53-6	< 0.01

* Exact percentages withheld as a trade secret

SECTION 4: First Aid Measures

4.1 Description of first aid measures

EYE CONTACT: Rinse thoroughly with water for several minutes, whilst gently holding the eyelids open. Obtain medical attention if signs of discomfort.
INHALATION: Remove from exposure and keep warm and at rest. If breathing becomes difficult call a doctor. If breathing stops, begin artificial respiration and seek immediate medical attention.
SKIN CONTACT: Remove contaminated clothing. Wash off with soap and water. Seek medical attention if irritation or rash occurs. Wash contaminated clothing before re-use.
INGESTION: If swallowed, rinse mouth with water. Do NOT induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration of liquid into the lungs. Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

EYES: Possibly mild irritation.
INHALATION: No adverse effects anticipated.
INGESTION: Nausea, abdominal discomfort.
SKIN: Possibly mild irritation, drying of the skin in case of prolonged contact. .

4.3 Indication of any immediate medical attention and special treatments needed

Symptomatic treatment as required

SECTION 5: Firefighting Measures

5.1 Extinguishing media

Not flammable. Use extinguishing media appropriate to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

None identified.

5.3 Advice for fire fighters

Prevent run-off from fire from entering water courses and sewers. Fire-fighters should use standard protective equipment and in enclosed spaces, positive pressure self-contained breathing apparatus (SCBA).

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all ignition sources. Keep unnecessary personnel away from spill area. Ventilate the area if possible. For spillages in confined spaces or large incidents protective clothing may be required. See section 8 for more information.

6.2 Environmental precautions

Prevent entry into sewers and watercourses. If product enters sewers or watercourses, inform the appropriate environmental authorities.

6.3 Methods and materials for containment and clearing up

Small spills: Wipe up with paper towels and place in a suitable container for disposal. Wash the spill area with detergent and water.

Large spills: Take up with inert absorbent and collect in a suitable container for disposal. Wash the spill site thoroughly with detergent and water.

6.4 References to other sections

See sections 8 and 13 for further advice on protective clothing and disposal.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Avoid prolonged contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area.

Containers that have been opened should be carefully resealed and stored upright to prevent leakage.

7.3 Specific end uses(s)

No industrial or sector specific guidance available.

SECTION 8. Exposure Controls/Personal Protection

8.1 Control parameters

No exposure limits identified.

8.2 Exposure controls

Engineering controls

Not normally required.

Respiratory protection

Use in well ventilated areas.

Hand Protection

Not normally required. If prolonged contact is likely, gloves may be worn. Glove manufacturer recommendations should always be consulted. Change gloves in accordance with manufacturer recommendations. If gloves are damaged during use, remove immediately and wash hands before replacing with new gloves.

Eye protection

Not normally required. If significant splashing is likely, wear suitable eye protection to protect from splashes, meeting the requirements of BS EN166 3, when handling this product.

Skin protection

Not normally required. If significant and prolonged exposure is likely, aprons or coveralls are recommended. These should be changed after use or if contaminated. Wash before re-use.

Environmental Exposure Controls

Take suitable measures to prevent entry into drains, sewers and watercourses.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a) Physical state:	Liquid
b) Colour:	Colourless
c) Odour:	Almost odourless
d) Melting point:	18 °C / 64.4 °F
e) Boiling point:	290 °C / 554 °F
f) Flammability:	Not applicable
g) Upper/lower flammability limits:	No data

h) Flashpoint:	Above 65.6 °C
i) Autoignition temperature:	No data
j) Decomposition temperature:	No data
k) pH:	No data
l) Kinematic viscosity:	No data
m) Solubility:	Miscible with water
n) Partition coefficient (log Kow):	-1.8
o) Vapour pressure:	< 0.2 mm Hg
p) Density and/or relative density:	No data
q) Relative vapour density:	1.261g/ml
r) Particle characteristics	Not applicable

9.2 Other information

None.

SECTION 10: Stability and Reactivity

10.1 Reactivity

This product is not considered to be a reactive substance.

10.2 Chemical stability

This material is stable under expected conditions of use.

10.3 Possibility of hazardous reactions

Hazardous polymerisation is not expected to occur.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Strong oxidisers.

10.6 Hazardous decomposition products

Material does not decompose under normal conditions of use. See section 5 for fire decomposition products.

SECTION 11: Toxicological Information

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

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

(a) acute toxicity	Based on available data, the classification criteria are not met.
(b) skin corrosion/irritation	Based on available data, the classification criteria are not met.
(c) serious eye damage/irritation	Based on available data, the classification criteria are not met.
(d) respiratory/skin sensitisation	Based on available data, the mixture contains the known sensitiser imidazolidinyl urea at concentration below the classification threshold, however persons who are already sensitive to this substance may experience an allergic reaction.
(e) germ cell mutagenicity	Based on available data, the classification criteria are not met.
(f) carcinogenicity	Based on available data, the classification criteria are not met..
(g) reproductive toxicity	Based on available data, the classification criteria are not met.
(h) STOT-single exposure	Based on available data, the classification criteria are not met.
(i) STOT-repeated exposure	Based on available data, the classification criteria are not met.
(j) aspiration hazard	Based on available data, the classification criteria are not met.

11.2 Information on other hazards

No additional information.

SECTION 12: Ecological Information

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

12.1 Toxicity

Not expected to be hazardous to aquatic organisms.

12.2 Persistence and degradability

The components of this product are expected to be biodegradable.

12.3 Bioaccumulative potential

This product is expected to have a low bioaccumulation potential.

12.4 Mobility in soil

Not known. Product is mostly water.

12.5 Results of PBT and vPvB assessment

None of the components are known to be PBT or vPvB.

12.6 Endocrine disrupting properties

None of the components are known to have endocrine disrupting properties.

12.7 Other adverse effects

None known.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Disposal should be in accordance with local and national regulations. Small quantities may be washed to drain with large quantities of water.

SECTION 14: Transport Information

	ADR	IMDG	ICAO
14.1 UN Number	NONE	NONE	NONE
14.2 UN Proper shipping name	NONE	NONE	NONE
14.3 Transport hazard class(es)	NONE	NONE	NONE
14.4 Packing group	NONE	NONE	NONE
14.5 Environmental hazards	NONE	NONE	NONE
14.6 Special precautions for user	NONE	NONE	NONE
14.7 Maritime transport in bulk according to IMO instruments	Not Applicable	Not Applicable	Not Applicable

SECTION 15: Regulatory Information

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

All components are listed on the Toxic Substances Control Act (TSCA) Substance Inventory.

SECTION 16: Other Information

Revision information:

This is a new SDS.

List of Abbreviations used in this SDS:

CAS Chemical Abstracts Service
PBT Persistent, Bioaccumulative and Toxic
vPvB very Persistent, very Bioaccumulative

Method used for classification of mixtures:

Ingredient based approaches

Training requirements for workers

No special requirements.