

# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 14.05.2014

Revision: 14.05.2014

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** EVEREADY BATTERY

**Recommended Use of the Chemical and Restriction on Use:**

Carbon zinc batteries (Dry cell batteries) - Energy source

**Details of Manufacturer or Importer:**

Element 14 Pty Ltd  
72 Ferndell Street  
Chester Hill NSW 2162

**Phone Number:** 02 9644 7722

**Emergency telephone number:** National Poison Information Centre: 13 11 26

## 2 . HAZARDS IDENTIFICATION

**Hazardous Nature:**



corrosion

Skin Corr. 1B      H314 Causes severe skin burns and eye damage.



environment

Aquatic Acute 1      H400 Very toxic to aquatic life.

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



Acute Tox. 4      H302 Harmful if swallowed.

Acute Tox. 4      H332 Harmful if inhaled.

**Label Elements**

**Signal Word** Danger

**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**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P303+P361+P353 IF ON SKIN (or hair): Remove/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.

P321 Specific treatment (see on this label).

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P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P363	Wash contaminated clothing before reuse.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P330	Rinse mouth.
P391	Collect spillage.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P310	Immediately call a POISON CENTER/doctor.
P312	Call a POISON CENTER/doctor if you feel unwell.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

### 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterization: Mixtures****Description:**

Mixture of substances listed below with nonhazardous additions. The hazard applies only in case of an open battery.

**Hazardous Components:**

7440-66-6	zinc powder -zinc dust (stabilized) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	7-42%
1313-13-9	Manganese oxide ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	15-31%
7646-85-7	zinc chloride ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	2-10%
12125-02-9	ammonium chloride ⚠ Acute Tox. 4, H302; Eye Irrit. 2A, H319	1-10%
1333-86-4	Carbon black ⚠ Self-heat. 2, H252	3-7%

**Additional information:**

The battery is sealed hermetically and designed to withstand temperatures and pressures encountered during normal use. Thus, the ingredients have no hazard potential except if the battery is violated or dismantled. If exposed to a fire, mechanical shocks, and electric stress by misuse, the battery cell case will be breached and the hazardous materials may be released and acrid gas may be emitted. Therefore the batteries should not short circuit, recharge, puncture, incinerate, force discharge or expose to temperatures above the temperature range of the cell or battery.

### 4 . FIRST AID MEASURES

**Inhalation:** If inhaled, remove to fresh air. Seek medical attention.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. If a chemical burn occurs or if irritation persists, seek medical attention.

**Eye Contact:**

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

**Ingestion:** Do not induce vomiting or give food or drink. Seek medical attention immediately.

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## 5 . FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Use fire extinguishing methods suitable to surrounding conditions.

**Specific Hazards Arising from the Chemical:**

Cool batteries if exposed to fire to prevent rupture.

Batteries normally evolve hydrogen which, when combined with oxygen from the air, can produce a combustible or explosive mixture unless vented. If such a mixture is present, short circuits, high temperature, or static sparks can cause an ignition.

**Special Protective Equipment and Precautions for Fire Fighters:**

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

## 6 . ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear Safe Work Australia approved chemical goggles, chemical resistant gloves (neoprene or natural rubber), protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Battery materials should be collected in a leak-proof container.

## 7 . HANDLING AND STORAGE

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours if handling an open or leaking battery. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, well ventilated area. Elevated temperatures can result in shortened battery life. Accidental short circuit will not seriously affect the battery. Prolonged short circuit will cause the battery to lose energy, and can cause the safety release vent to open. Do not install backwards, charge, put in fire, or mix with other battery types. May explode or leak causing injury.

This battery is not designed for recharging. Recharging can cause battery leakage or, in some cases, high pressure rupture.

## 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Standards:**

**1313-13-9 Manganese oxide**

NES	TWA: 1 mg/m <sup>3</sup> as Mn
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**7646-85-7 zinc chloride**

NES	STEL: 2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>
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<b>12125-02-9 ammonium chloride</b>	
NES	STEL: 20 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
<b>1333-86-4 Carbon black</b>	
NES	TWA: 3 mg/m <sup>3</sup>

**Engineering Controls:** Not necessary under normal conditions.**Personal Protective Equipment (PPE):****Respiratory Protection:** Not necessary under normal conditions.**Skin Protection:** Not necessary under normal conditions.**Eye and Face Protection:** Not necessary under normal conditions.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

<b>Form:</b>	Solid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Odourless
<b>pH-Value:</b>	Not applicable.
<b>Initial Boiling Point/Boiling Range:</b>	Not applicable
<b>Flash Point:</b>	Not applicable.
<b>Explosion Limits:</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Vapour Pressure:</b>	Not applicable.
<b>Relative Density at 20 °C:</b>	2-3 g/cm <sup>3</sup>
<b>Vapour Density:</b>	Not applicable.
<b>Evaporation Rate:</b>	Not applicable.
<b>Solubility in Water:</b>	Insoluble

## 10 . STABILITY AND REACTIVITY

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.**Conditions to Avoid:** No further relevant information available.**Incompatible Materials:** No further relevant information available.**Hazardous Decomposition Products:** No information available

## 11 . TOXICOLOGICAL INFORMATION

**Toxicity:**

<b>LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:</b>	
<b>1313-13-9 Manganese oxide</b>	
Oral LD <sub>50</sub>	>3478 mg/kg (rat)
<b>7646-85-7 zinc chloride</b>	
Oral LD <sub>50</sub>	350 mg/kg (rat)
<b>12125-02-9 ammonium chloride</b>	
Oral LD <sub>50</sub>	1650 mg/kg (rat)

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<b>1333-86-4 Carbon black</b>		
Oral	LD <sub>50</sub>	10000 mg/kg (rat)

**Acute Health Effects****Inhalation:** Contents of an open battery can cause respiratory irritation. Harmful if inhaled.**Skin:** Contents of an open battery can cause skin irritation and/or chemical burns.**Eye:** Contents of an open battery can cause severe irritation and chemical burns.**Ingestion:**

Swallowing a battery can be harmful. Contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract. Harmful if swallowed.

**Skin Corrosion / Irritation:** Causes severe skin burns.**Serious Eye Damage / Irritation:** Causes serious eye damage.**Respiratory or Skin Sensitisation:** No sensitising effects known.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** Carbon black is classified by IARC as Group 2B - Possibly carcinogenic to humans.**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No information available**Existing Conditions Aggravated by Exposure:** No information available**12 . ECOLOGICAL INFORMATION****Persistence and Degradability:** Not applicable**Bioaccumulative Potential:** Not applicable**Mobility in Soil:** Not applicable**13 . DISPOSAL CONSIDERATIONS****Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

**14 . TRANSPORT INFORMATION****UN Number** Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated

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### 15 . REGULATORY INFORMATION

#### Australian Inventory of Chemical Substances:

1313-13-9	Manganese oxide
7439-89-6	iron
7646-85-7	zinc chloride
12125-02-9	ammonium chloride
1333-86-4	Carbon black

### 16 . OTHER INFORMATION

**Creation Date:** 14.05.2014**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)**Abbreviations and acronyms:**

GHS: Globally Harmonized 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

**Disclaimer**

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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