

# Safety Data Sheet

according to WHS Regulations

Printing date 13.10.2021

Revision: 13.10.2021

## 1 Identification

**Product Name: Alkaline Battery****Other Means of Identification:** Article**Recommended Use of the Chemical and Restriction on Use:** Portable power source for electronic devices.**Details of Manufacturer or Importer:**Adventure Operations  
71 Charles Ulm Place  
Eagle Farm QLD 4009**Phone Number:** 1300 657 022**Emergency telephone number:** 1300 657 022

## 2 Hazard(s) Identification

**Hazardous Nature:**

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



Health hazard

STOT RE 1

H372 Causes damage to organs through prolonged or repeated exposure.  
Route of exposure: Oral, Inhalation.

Corrosion

Skin Corrosion/Irritation 1A

H314 Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation 1

H318 Causes serious eye damage.



Acute Toxicity (Oral) 4

H302 Harmful if swallowed.

Acute Toxicity (Inhalation) 4

H332 Harmful if inhaled.

**Signal Word** Danger**Hazard Statements**

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

H372 Causes damage to organs through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.

**Precautionary Statements**

P260 Do not breathe dusts or mists.

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.

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

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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).

P314 Get medical advice/attention if you feel unwell.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

**Additional Information**

This product is considered as a manufactured article and so is exempt from GHS classification. The classifications listed above refer to the contents of this battery. Users will not be exposed to the contents during normal use, but hazardous materials may be released if the battery is subjected to fire, mechanical shocks, or misuse.

### 3 Composition and Information on Ingredients

**Chemical Characterization: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

CAS: 1313-13-9	Manganese oxide ⚠ STOT RE 1, H372; ⚠ Acute Toxicity (Oral) 4, H302; Acute Toxicity (Inhalation) 4, H332	40-50%
CAS: 1310-58-3	Potassium hydroxide ⚠ Skin Corrosion/Irritation 1A, H314; ⚠ Acute Toxicity (Oral) 4, H302	5-10%

**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 be short circuited, overcharged, punctured, incinerated, immersed in water, force discharged or exposed to temperatures above the temperature range of the cell or battery. Contains nickel plated steel as a construction material.

### 4 First Aid Measures

**General Information:** This information is relevant only if the battery is broken and contents are exposed.**Inhalation:**

If the contents of an opened battery are inhaled, remove to fresh air. If not breathing, give artificial respiration. Seek immediate medical attention.

**Skin Contact:**

In case of skin contact with the contents of an opened battery, immediately remove contaminated clothing and wash affected areas with water and soap for at least 15 minutes. Seek immediate medical attention.

**Eye Contact:**

In case of eye contact with the contents of an opened battery, hold eyelids open and rinse with water for at least 15 minutes. Seek immediate medical attention.

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**Ingestion:**

If the battery or the contents of an opened battery are swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

**Symptoms Caused by Exposure:**

Inhalation: Contents of an opened battery are harmful if inhaled. Battery contents may also cause respiratory irritation.

Skin Contact: Contents of an opened battery causes skin irritation.

Eye Contact: Contents of an opened battery causes serious eye irritation.

Ingestion: Battery and contents of an opened battery may cause gastrointestinal irritation, nausea, diarrhoea, and vomiting.

### 5 Fire Fighting Measures

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

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include irritating and flammable vapours.

Batteries may rupture or explode if exposed to high temperatures, releasing hazardous contents.

Batteries close to fire should be removed if safe to do so.

Prevent run-off from fire fighting entering drains or water courses.

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

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

### 6 Accidental Release Measures

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

Wear approved respiratory and protective equipment. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses. Inform respective authorities in case of seepage into water course or sewage system.

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

The material contained within the battery is released only in the case of mechanical, electrical or thermal abuse. In the event of battery rupture and leakage allow the batteries to cool and the vapour to dissipate. Stop leak if safe to do so and absorb spill with sand, earth or some other inert absorbent material. Collect the spilled material and place into a suitable metal container for disposal.

### 7 Handling and Storage

**Precautions for Safe Handling:**

Do not overcharge, short-circuit, force discharge, disassemble, crush, deform, expose to high temperatures or incinerate. Do not allow battery terminals to contact each other or other metals. Do not weld, solder or in any way modify batteries. Do not damage or remove the external casing. Ensure batteries are installed with the correct polarity. Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. 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. Contaminated work clothing must not be allowed out of the workplace. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Storage preferably in cool, dry and well ventilated area. Ensure battery terminals are protected during storage. Batteries must be packed in a manner to prevent short circuits. Loose batteries should not be stored in bulk. Protect from mechanical and electrical abuse such as short circuiting, overcharging, installing with incorrect

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polarity, disassembling or crushing. Protect from heat, sparks, open flames and direct sunlight. Keep away from strong oxidising agents, combustible materials and corrosives. Protect from high temperatures.

### 8 Exposure Controls and Personal Protection

**Exposure Standards:****CAS: 1310-58-3 Potassium hydroxide**WES | Peak limitation: 2 mg/m<sup>3</sup>**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

**Respiratory Protection:**

Respiratory protection is not required under normal use conditions. Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. In the case of abuse and leakage of liquid or emission of fumes) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Skin and body protection are not required under normal use conditions.  
In case of spill or leakage, wear impervious protective gloves. See Australian/New Zealand Standard AS/ NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered. Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Not necessary under normal conditions of use.  
In case of spill or leakage wear safety glasses for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### 9 Physical and Chemical Properties

**Appearance:**

<b>Form:</b>	Solid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	No information available
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	No information available
<b>Melting point/freezing point:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	No information available
<b>Flammability:</b>	No information available
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	No information available
<b>Upper:</b>	No information available
<b>Vapour Pressure:</b>	No information available
<b>Density:</b>	No information available
<b>Relative Density:</b>	No information available
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available

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**Solubility in Water:** No information available**Partition Coefficient (n-octanol/water):** No information available**Viscosity:** No information available

### 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** No known hazardous reactions under normal conditions.**Chemical Stability:** Stable at ambient temperature and under normal conditions of storage and use.**Conditions to Avoid:**

Mechanical and electrical abuse such as short circuiting, overcharging, installing with incorrect polarity, disassembling or crushing. Protect from heat, sparks and open flames. Avoid excessive moisture. Exposure to high temperatures.

**Incompatible Materials:** Strong oxidising agents, combustible materials and corrosives.**Hazardous Decomposition Products:**

Hazardous combustion products include irritating and flammable vapours.

### 11 Toxicological Information

**Toxicity:****LD50/LC50 Values Relevant for Classification:****CAS: 1313-13-9 Manganese oxide**

Oral LD50 &gt;3,478 mg/kg (rat)

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

Oral LD50 273 mg/kg (rat)

**Acute Health Effects****Inhalation:**

Contents of an opened battery are harmful if inhaled. Battery contents may also cause respiratory irritation.

**Skin:** Contents of an opened battery causes skin irritation.**Eye:** Contents of an opened battery causes serious eye irritation.**Ingestion:**

Battery and contents of an opened battery may cause gastrointestinal irritation, nausea, diarrhoea, and vomiting.

**Skin Corrosion / Irritation:** Causes severe skin burns.**Serious Eye Damage / Irritation:** Causes serious eye damage.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**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:**

Causes damage to organs through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No data associated with long term health effects.

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**Existing Conditions Aggravated by Exposure:** No data available.

## 12 Ecological Information

**Ecotoxicity:****Aquatic toxicity:****CAS: 1310-58-3 Potassium hydroxide**

EC50/15 minutes	22 mg/l (bacterial)
LC50/96 h	45.4 mg/l (rainbow trout)
LC50/48 h	40 mg/l (daphnia)

**Persistence and Degradability:** No data available on finished product.**Bioaccumulative Potential:** No data available on finished product.**Mobility in Soil:** No data available on finished product.**Other adverse effects:** No further relevant information available.

## 13 Disposal Considerations

**Disposal Methods and Containers:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
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

## 15 Regulatory Information

**Australian Inventory of Industrial Chemicals:**

All ingredients are listed.

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:**

Not a scheduled poison.

## 16 Other Information

**Date of Preparation or Last Revision:** 13.10.2021**Prepared by:** MSDS.COM.AU Pty Ltd

www.msds.com.au

**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

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Acute Toxicity (Oral) 4: Acute toxicity – Category 4

Skin Corrosion/Irritation 1A: Skin corrosion/irritation – Category 1A

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020”

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