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MATERIAL SAFETY DATA SHEET

USED NON LEAD ACID BATTERIES

Alkaline Dry Cell

Non Alkaline Dry Cell (Including Rechargeables) Non Lead Acid Wet Cell

Section 1: Identification of the Material and the Supplier

Product Name: Alkaline Batteries
Other Names known By: Pro cell alkaline Dioxide Manganese (ie. AA, AAA, C, D)
Size: Various
UN Number: No UN Number Allocated

Alkaline Batteries do not have a Dangerous Goods Code, Packing Group, Subsidiary Risk, Hazchem Code or Poisons Schedule Number.

Alkaline Batteries are used as a source of energy.

Suppliers Name and Suppliers Address:

Wide Bay Capricorn Battery Recyclers Pty Ltd
96 Mt Perry Road
Bundaberg North. Qld. 4670

Emergency Telephone Number: (07) 4151 4600

Section 2: Hazards Identification

These Alkaline Batteries have a cylindrical appearance.

Alkaline batteries may explode, leak, cause burns, if disposed of in a fire, inserted backwards or disassembled. Alkaline batteries **MUST NOT** be recharged.

Always replace all batteries at the same time in the unit.

Do not remove battery label.

Alkaline batteries are classed as Non-Hazardous, and are not classed as a Dangerous Goods.



Section 3: Composition/Information on Ingredients

Chemical Name	CAS Number	Amount	Classification
Manganese Dioxide	1313-13-9	30-45%	Xn, R20/22
Potassium Hydroxide 35%.	1310-58-3	5-15%	C, Xn, R22, R35
Zinc	7440-66-6	10-30%	N, R50/53
Graphite - natural/synthetic	7782-42-5 7440-44-0	1-5%	None

Section 4: First Aid Management

General advice:

The contents of Alkaline Batteries are held in a sealed container. Exposure to the contents will not occur unless the Alkaline Batteries leaks due to mechanical, physical or electrical interference and abuse. Do not expose this product to high temperatures. A damaged Battery will release concentrated potassium hydroxide that is caustic.

Skin Contact

If the contents come into contact with the skin due to leakage, flush skin with large amounts of water, preferably running water, for at least 15-20 minutes. Remove any contaminated clothing and seek medical advice if irritation continues.

Eye Contact

If the contents come into contact with the eye due to leakage, flush the eye with large amounts of water, preferably running water, for at least 30 minutes and seek medical advice immediately.

Inhalation

If the contents of a leaking battery are inhaled, move to fresh air. Contents may irritate the respiratory passages. Seek medical advice if necessary.



Ingestion

If the contents of a leaking battery are ingested, DO NOT induce vomiting. If the patient is awake and alert, ensure that they rinse their mouth and any skin affected with water for a minimum of 15-20 minutes. Seek medical advice immediately.

Section 5: Fire Fighting Measures

Fire and Explosion:

Exposure to fire may cause these batteries to explode which in turn releases hazardous product.

Extinguishing Media:

For any surrounding fire, use the extinguishing media that is appropriate.

Special Fire Fighting Notes:

Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Fight fire from a distance or protected area. Cool fire exposed batteries to prevent rupture. Use caution when handling fire exposed containers.

Hazardous Combustion Products:

The result of the heat from fire on these products could produce fumes of zinc, manganese, hydrogen gas, vapours of potassium hydroxide and various other toxic products.

Section 6: Accidental Release Measures

Safety personnel are to be notified in the event of major spills. Caustic potassium hydroxide could be released from compromised batteries. Take care when cleaning up batteries and ensure they are placed in a container that is appropriate for disposal. The correct protective items are to be worn when cleaning up. Take care to avoid eye and skin contact and inhalation of fumes.



Section 7: Handling and Storage

Install batteries correctly as per instructions on the equipment. Incorrectly installed batteries may result in batteries exploding. Do not crush batteries, recharge batteries or expose batteries to high temperatures. Do not mix different types of batteries in the installation, ie. Alkaline or zinc. Do not mix old and new batteries in products. Do not remove battery labels.

Always store batteries in a dry place at normal room temperature. Batteries are not to be refrigerated as it will not make them last any longer.

Section 8: Exposure Controls/Personal Protection

The following occupational exposure limits are provided for information purposes. No exposure to the battery contents should occur during normal consumer use.

Chemical Name	Australia Exposure Limits
Manganese Dioxide	1mg/3 TWA
Zinc	None
Potassium Hydroxide	2mg/m3 Peak
Graphite	3mg/m3 TWA

No special ventilation or Respiratory Protection is required for normal use. No gloves protection or eye protection is required under normal use.

If handling compromised batteries, use neoprene, rubber or latex gloves and wear safety goggles.

Section 9: Physical and Chemical Properties

Appearance: Cylindrical

Water Soluable: Insoluble

Not Applicable: Vapour Density and Pressure, Melting And Flash Point, Boiling Point, Specific Gravity, Auto Ignition Point.



Section 10: Stability and Reactivity Data

The product is stable.

Hazardous polymerisation will not occur.

Do not heat, disassemble, recharge, short circuit or crush the product.

Contents of the product are not compatible with strong oxidising agents.

The result of the heat from fire on these products could produce fumes of zinc, manganese, hydrogen gas, vapours of potassium hydroxide and various other toxic products.

Section 11: Toxicological Properties

The contents of the product are held in a sealed container. Exposure to the contents will not occur unless the Alkaline Batteries leaks due to mechanical, physical or electrical interference and abuse. Do not expose this product to high temperatures. A damaged Battery will release concentrated potassium hydroxide that is caustic.

Eye Contact

The contents of this product if in contact with the eye may cause major irritation and possible burns with eye damage possible.

Skin Contact

The contents of this product if in contact with the skin may cause major irritation and possible burns.

Inhalation

Inhalation of fumes or vapours released due to heat or a large amount of leaking batteries may cause respiratory and eye irritation.

Swallowing

Due to the battery size, it is not thought that the product would be ingested, but choking may occur if small AAA batteries are ingested. If the contents of a compromised battery are ingested, then mouth, throat and intestinal damage and damage could occur.

Acute Toxicity Data

Manganese Dioxide: LD50 oral rat > 3478mg/kg Potassium Hydroxide: LD50 oral rat > 273mg/kg



Chronic Effects

The contents of this product are held in a sealed container and exposure will not occur under normal use. No chronic effects would be expected when handling a leaking battery.

Target Organs

Respiratory system, eyes and skin are the targeted organs if contact occurs with a leaking battery.

Carcinogenicity

None of the components of this product are listed as carcinogens by the Australian HSIS, ACGIH, IARC, the US NTP or the EU Directive.

Section 12: Ecological Information

This product in its complete form is not expected to present an environmental hazard.
No toxicity data is available.

Section 13: Disposal Considerations

Disposal should be in accordance with national and local regulation.
It is highly recommended that Alkaline Batteries be disposed of through a recycling collection centre.
Do not dispose of with general household waste.

Section 14: Transport Information

The products listed in this sheet in their complete form are considered Dry Batteries and are not regulated for transport as Dangerous Goods.



Section 15: Regulatory Information

Poisons Schedule Number: Nil

Australian Workplace Labelling: None required as the product is classed as articles and are subsequently exempt from the labelling requirements.

Section 16: Other Information

P & G Hazard Rating: Health. 0. Fire. 0 Reactivity. 0

C. Corrosive

N. Dangerous for the environment

Xn. Harmful

R20/22. Harmful by inhalation and ingestion

R22. Harmful if ingested

R35. Causes severe burns

R50/53. Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

Disclaimer

This MSDS is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment.