

Safety Data Sheet



Section 1: Information of Manufacturer

Details of the supplier of the safety data sheet

Premier Farnell plc
150 Armley Road, Leeds, LS12 2QQ
+44 (0) 8701 202530

Emergency telephone number

+44 1865 407333

Section 2: Hazardous Ingredients / Identity Information

Ingredient	CAS NO.	EC No.	Content (wt%)
Manganese Dioxide	1313-13-9	215-202-6	26.1%
Zinc	7440-66-6	231-175-3	8.8%
Graphite	7782-42-5	231-955-3	5.3%
Potassium Hydroxide	1310-58-3	231-119-8	3.3%
Iron	7439-89-6	231-096-4	56.5%

Section 3 : Physical / Chemical Characteristics

Form:	N/A	Specific Gravity (H ₂ O=1)	N/A
Boiling Point	N/A	Melting Point	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (Buty 1 Acetate=1)	N/A
Vapor Density (AIR=1)	N/A	pH	N/A
Solubility in Water	N/A	Appearance and Odor	N/A

Section 4: Hazard classification

N.A.

Section 5: Reactivity Data

Stability Yes (X)	Unstable (-)	Conditions to Avoid
	Stable (X)	

Incompatibility (Materials to Avoid) : Hazardous Decomposition or By products

When heated, battery may emit hazardous vapour of KOH/ NaOH and Hg

Hazardous Reactions Yes (X)	May Occur (-)	Conditions to Avoid
	Will Not Occur (X)	

Section 6: Health Hazard Data

Route(s) of Entry Yes=(X)

Inhalation : (N.A.)

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Farnell.com/exclusive-brands
Element14.com/exclusive-brands



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Skin : (N.A.)
Ingestion : (N.A.)
Health Hazard (Acute and Chronic) /
Toxicological information : In case of electrolyte leakage, skin will be itchy when contaminated with electrolyte.

Section 7: First Aid Measures

First aid Procedures

If electrolyte leakage occurs and makes contact with skin, wash immediately. If electrolyte comes into contact with eyes, wash with copious amounts of water for fifteen minutes, and contact a physician.

Section 8: Fire and Explosion Hazard Data

Flash point (Method Used) : NA
Ignition temp. : NA
Flammable Limits : NA
LEL : NA
UEL : NA
Extinguishing Media : NA
Special Fire Fighting Procedures : NA
Unusual Fire and Explosion Hazards
Do not dispose of battery in fire - may explode. Do not short - circuit battery - may explode.

Section 9: Accidental Release or Spillage

Steps to Be Taken in Case Material is Released or Spilled Batteries that are leaking should be handled with rubber gloves. Avoid direct contact with electrolyte.

Section 10: Handling and Storage

Safe handling and storage advice

The battery is extremely sensitive to adverse effects of humidity. Be sure to store them in a place that is dry and subject to little temperature change. Do not place near boiler or radiator, nor expose to direct sun light. Do not dispose of the battery in fire. Do not charge the battery. Do not short-circuit the battery. Do not put in backward position. Do not store in disorderly fashion, or allow metal objects to be mixed with stored batteries. Do not disassemble the battery, handling in such manner can cause the battery to explode, leak and injury.

Section 11: Exposure Controls / Personal Protection

Occupational Exposure Limits : LTEP NA
STEP : NA
Respiratory Protection (Specify Type) : NA
Ventilation
Local Exhausts : NA
Mechanical General : NA
Special : NA
Eye Protection : NA
Other Protective Clothing or Equipment : NA
Work/Hygienic Practices : NA



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Section 12: Ecological Information

NA

Section 13: Disposal Method

Dispose of batteries according to government regulations

Section 14: Transportation Information

The Manufacturer are considered to be "Dry cell" batteries and are unregulated for purposes of transportation by the U.S. Department of Transportation (DOT), International Civil Aviation Administration (ICAO), International Air Transport Association (IATA) and International Maritime Dangerous Goods Regulations (IMDG). The only DOT requirement for shipping these batteries is special provision A123 which states: "Batteries, dry are not subject to the requirement of this subchapter only when they are offered for transportation in a manner that prevents the dangerous evolution of heat (For example, by the effective insulation of exposed terminals). As per 65th edition of IATA requires that batteries being transported by air must be protected from short-circuiting and protected from movement that could lead to short-circuiting.

Section 15: Regulatory Information

Special requirement be according to the local regulatory.

Section 16: Other Information

Measures for fire extinction : In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture. Fire fighters should wear self-contained breathing apparatus

The data in this Material Safety Data Sheet relates only to the specific material designated herein.

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