



ALKALINE MATERIAL SAFETY DATA SHEET

Dry Cell: Alkaline Manganese Dioxide Cell, Non-Rechargeable Battery

MATERIAL SAFETY DATA SHEET (MSDS)

NSN: 6135009857846

Manufacturer's CAGE: 90303

Part No. Indicator: B

Part Number/Trade Name: Alkaline Manganese Dioxide Cell

General Information

Item Name: Battery, Non-Rechargeable

Company's Name: Interstate All Battery Center

Company's Street: 1700 Dixon Street

Company's City: Des Moines

Company's State: IA

Company's Country: US

Company's Zip Code: 50316

Company's Emergency Phone #: 1-800-255-3924

Company's Information Phone #: 1-800-255-3924/1-800-203-6549

Record number for safety entry: 011

Total safety entries this stock#: 011

Status: FE

Date MSDS Prepared: October 23, 2008

Safety Data Review Date: October 23, 2008

Supply Item Manager: CX MSDS

Serial Number: BQXVM

Specification Number: W-B-101

Spec Type, Grade, Class: NONE

Hazard Characteristic Code: N1

Unit of Issue: PG

Unit of Issue Container Quantity: Unknown

Type of Container: Unknown

Net Unit Weight: Unknown

Ingredients/Identity Information

Proprietary: NO

Ingredient: POTASSIUM HYDROXIDE (SARA III)

Ingredient Sequence Number: 01

Percent: 8.0

NIOSH (RTECS) Number: TT2100000

CAS Number: 1310-58-3

OSHA PEL: C, 2 mg KOH/M³

ACGIH TLV: C, 2 mg KOH/M³; 9293

Other Recommended Limit: None recommended

Ingredients/Identity Information (continued)

Proprietary: NO
Ingredient: MANGANESE DIOXIDE (AS MANGANESE)
Ingredient Sequence Number: 02
Percent: 40.0
NIOSH (RTECS) Number: OP0350000
CAS Number: 1313-13-9
OSHA PEL: C, 5 mg/M³
ACGIH TLV: 5 mg/M³ dust
Other Recommended Limit: None recommended

Proprietary: NO
Ingredient: ZINC (SARA III)
Ingredient Sequence Number: 03
Percent: 15.0
NIOSH (RTECS) Number: ZG8600000
CAS Number: 7440-66-6
OSHA PEL: 10 mg ZnO/M³
ACGIH TLV: 10 mg ZnO/M³; 9293
Other Recommended Limit: None recommended

Proprietary: NO
Ingredient: Steel (Iron)
Ingredient Sequence Number: 04
Percent: 25.0
NIOSH (RTECS) Number: OV4550000
CAS Number: 7439-89-6
OSHA PEL: None Established
ACGIH TLV: None Established
Other Recommended Limit: None recommended

Proprietary: NO
Ingredients: Water Paper, Plastic and Other
Ingredient Sequence Number: 05
Percent: 12.0
NIOSH (RTECS) Number: Various
CAS Number: Various
OSHA PEL: None Established
ACGIH TLV: None Established
Other Recommended Limit: None recommended

Physical/Chemical Characteristics

Appearance and Odor: Cylindrical battery, No odor
Solubility in Water: Insoluble

Fire and Explosion Hazard Data

Extinguishing Media: Item is non-flammable; use appropriate media for surrounding fire.
Special Fire Fighting Proc: HMIS suggests to use a self-contained breathing apparatus whenever fighting a chemical fire.
Unusual Fire and Explosion Hazards: Cells may release toxic zinc fumes.

Reactivity Data

Stability: Yes

Conditions to Avoid (Stability): Heat, disassembly, recharging.

Materials to Avoid: Not reported

Hazardous Decomposition Products: When heated, cells release toxic zinc vapors and potassium hydroxide.

Hazardous Poly Occur: No

Conditions to Avoid (Poly): None

Health Hazard Data

LD50-LC50 Mixture: Not established

Route Of Entry - Inhalation: Yes Route

Of Entry - Skin: Yes

Route Of Entry - Ingestion: Yes

Health Hazards, Acute and Chronic: This item is an article. The hazards listed are for KOH and Zn.

Skin: KOH can cause burns

Eyes: KOH can cause permanent injury

Inhalation: Fumes from Zn(when heated) are toxic

Carcinogenicity - NTP: No

Carcinogenicity - IARC: No

Carcinogenicity - OSHA: No

Explanation Carcinogenicity: Not applicable

Signs/Symptoms of Overexposure:

Skin and Eyes: Burns

Inhalation: Metal fume symptoms(from heated zinc).

Medical Conditions Aggravated By Exposure: Manufacturer states none known

Emergency/First Aid Procedures:

Skin: Flush with water.

Eyes: Flush with water for 15 minutes. Call physician.

Inhalation: Remove from exposure. Call physician.

Ingestion: Call poison control center or physician.

Precautions for Safe Handling and Use

Steps if material released/spilled: Absorb leakers with paper towel or inert absorbent; avoid skin and eye contact; place in an appropriate container for disposal. Carefully wash spill area with water.

Neutralizing Agent: None

Waste Disposal Method: Small numbers of cells can be disposed of as household trash. Leakers are considered hazardous waste. Do not incinerate. Follow any applicable federal, state and local regulations.

Precautions-Handling/Storing: Store at room temperature. Avoid mechanical, electrical or physical damage. For leakers use rubber, neoprene or latex nitrile gloves.

Other Precautions: Do not recharge. Follow appliance instructions for installation. Replace all batteries at the same time. Do not mix battery types.

Control Measures

Respiratory Protection: Use a self-contained breathing apparatus whenever cells are involved in a fire.

Ventilation: Subsequent to a fire use as much ventilation as possible.

Protective Gloves: Neoprene, rubber, latex-nitrile

Eye Protection: Safety glasses for leakers

Other Protective Equipment: Manufacturer states none.

Work Hygienic Practices: Use prudent hygienic and sanitary practices.

Supplier Safety & Health Data: None

Transportation Data

Trans Data Review Date: 93182

DOT PSN Code: ZZZ

DOT Proper Shipping Name: Not regulated by this mode of transportation

IMO PSN Code: ZZZ

IMO Proper Shipping Name: Not regulated by this mode of transportation

IATA PSN Code: ZZZ

IATA Proper Shipping Name: Not regulated by this mode of transportation

AFI PSN Code: ZZZ

AFI Proper Shipping Name: Not regulated by this mode of transportation

Additional Transportation Data: None

Disposal Data

Recycling: Battery must be recycled or disposed of in accordance with all Federal, state and local regulations.

Label Data

Label Required: Yes

Label Status: G

Common Name: ALKALINE MANGANESE DIOXIDE CELL

Special Hazard Precautions: This item is an article. The hazards listed are for KOH and Zn.

Skin: KOH can cause burns.

Eyes: KOH can cause permanent metal fume symptoms (from heated zinc).

Label Name: Interstate All Battery Center

Label Street: 1700 Dixon Street

Label City: Des Moines

Label State: IA

Label Zip Code: 50316

Label Country: US

Label Emergency Number: 1-800-255-3924