

DURACELL INC TECHNICAL SALES & MARKETING GROUP -- ALKALINE MANGANESE DIOXIDE CELL  
-- 6135-00-470-7779

===== Product Identification =====

Product ID:ALKALINE MANGANESE DIOXIDE CELL

MSDS Date:06/15/1992

FSC:6135

NIIN:00-470-7779

MSDS Number: BQXSW

=== Responsible Party ===

Company Name:DURACELL INC TECHNICAL SALES & MARKETING GROUP

Address:BERKSHIRE INDUSTRIAL PARK BLDG 9

City:BETHEL

State:CT

ZIP:06801

Country:US

Info Phone Num:800-243-9540/FAX 203-796-4518

Emer

gency Phone Num:203-796-4654/617-449-7600

Preparer's Name:J.DONAHUE/G.WALLACE

CAGE:90303

=== Contractor Identification ===

Company Name:DURACELL INC TECHNICAL SALES AND MARKETING GROUP

Address:BERKSHIRE CORPORATE PARK

Box:City:BETHEL

State:CT

ZIP:06801

Country:US

Phone:203-796-4000

CAGE:90303

Company Name:PRO BATTERY CO INC

Address:3941 OAKCLIFF INDUSTRIAL CT

Box:City:ATLANTA

State:GA

ZIP:30340-3408

Country:US

Phone:770-449-5900

CAGE:5X783

===== Composition/Information on Ingredients

=====

Ingred Name:POTASSIUM HYDROXIDE (SARA III)  
CAS:1310-58-3  
RTECS #:TT2100000  
Fraction by Wt: 8.0%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C, 2 MG/M3  
ACGIH TLV:C 2 MG/M3; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:MANGANESE DIOXIDE (AS MANGANESE)  
CAS:1313-13-9  
RTECS #:OP0350000  
Fraction by Wt: 37.0%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C, 5 MG/M3  
ACGIH TLV:5 MG/M3 DUST/1 FUME

Ingred Name:ZINC (SARA III)  
CAS:7440-66-6  
RTECS #:ZG8600000  
Fraction by Wt: 15.  
0%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 MG ZNO/M3  
ACGIH TLV:10 MG ZNO/M3; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:MERCURY (SARA III);MANUFACTRER STATES NONE ADDED  
CAS:7439-97-6  
RTECS #:OV4550000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:S, C, 0.1 MG/M3  
ACGIH TLV:S, 0.05 MG/M3; 9293  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenici

ty:NTP:NO IARC:NO OSHA:NO

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.INHAL:FUMES FROM ZN(WHEN HEATED) ARE TOXIC.

Explanation of Carcinogenicity:NOT APPLICABLE.

Effects of Overexposure:SKIN/EYES:BURNS.INHAL:METAL FUME SYMPTOMS(FROM HEATED ZINC).

Medical Cond Aggravated by Exposure:MANUFACTURER STATES NONE KNOWN.

===== First Aid Measures =====  
=====

First Aid:SKIN:FLUSH WITH WATER.EYES:FLUSH WITH WATER FOR 15 MINUTES.CALL PHYSICIAN.INHAL:REMOVE FROM EXPOSURE.CALL PHYSICIAN.INGEST:CALL POISON CONTROL CENTER OR PHYSICIAN.

===== Fire Fighting Measures =====

Extinguishing Media:ITEM IS NON-FLAMMABLE.USE APPROPRIATE MEDIA FOR SURROUNDING FIRE.

Fire Fighting Procedures:HMIS SUGGESTS TO USE A SELF-CONTAINED BREATHING APPARATUS WHENEVER FIGHTING A CHEMICAL FIRE.

Unusual Fire/Explosion

Hazard:CELLS MAY RELEASE TOXIC ZINC FUMES.

===== Accidental Release Measures =====

Spill Release Procedures:ABSORB LEAKERS WITH PAPER TOWEL OR INERT ABSORBANT;AVOID SKIN AND EYE CONTACT;PLACE IN AN APPROPRIATE CONTAINER FOR DISPOSAL.CAREFULLY!WASH SPILL AREA WITH WATER.

Neutralizing Agent:NONE

===== Handling and Storage =====

Handling and Storage Precautions: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 BATERIES AT THE SAME TIME.DO NOT MIX BATTERY TYPES.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE A SELF-CONTAINED BREATHING APPARATUS WHENEVER A LARE NUMBER OF CELLS ARE INVOLVED IN A FIRE.

Ventilation:SUBSEQUENT TO A FIRE USE AS MUCH VENTILATION AS POSSIBLE.

Protecti

ve Gloves:NEOPRENE,RUBBER,LATEX-NITRILE  
Eye Protection:SAFETY GLASSES FOR LEAKERS.  
Other Protective Equipment:MANUFACTURER STATES NONE.  
Work Hygienic Practices:USE PRUDENT HYGENIC AND SANITARY PRACTICES.  
Supplemental Safety and Health  
NONE

===== Physical/Chemical Properties =====

HCC:N1  
Solubility in Water:INSOLUBLE  
Appearance and Odor:CYLINDRICAL BATTERY,C-SIZE

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
NOT REPORTED.  
Stability Condition to Avoid:HEAT ...DISASSEMBLY,RECHARGING.  
Hazardous Decomposition Products:WHEN HEATED,CELLS RELEASE TOXIC ZINC VAPORS AND POTASSIUM HYDROXIDE.

===== Disposal Considerations =====

Waste Disposal Methods:SMALL NUMBERS OF CELLS CAN BE DISPOSED OF AS HOUSEHOLD TRASH.LEAKERS ARE CONSIDERED HAZARDOUS WASTE.DO NOT INCINERATE.FOLLOW APPLICABLE FEDERAL,STATE AND LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.