

DURACELL USA -- ALKALINE MANGANESE DIOXIDE CELL,MN1604 -- 6135-00-900-2139

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

Product ID:ALKALINE MANGANESE DIOXIDE CELL,MN1604

MSDS Date:09/24/1991

FSC:6135

NIIN:00-900-2139

MSDS Number: BNRGJ

=== Responsible Party ===

Company Name:DURACELL USA

Address:BERKSHIRE INDUSTRIAL PARK

City:BETHEL

State:CT

ZIP:06801

Country:US

Info Phone Num:203-796-4000 OR 617-449-7600

Emergency Phone Num:203-796-4000 OR 617-449-7600

Preparer's Name:J

IM DONAHUE/GEORGE WALLIS

CAGE:DO224

=== 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:DURACELL USA

Address:305 NEW HIGHWAY 64 E

City:LEXINGTON

State:NC

ZIP:27292

Phone:(617)449-7600

CAGE:DO224

===== Composition/Information on Ingredients =====

Ingred Name:POTASSIUM HYDROXIDE (SARA III)

CAS:1310-58-3

RTECS #:TT

2100000
Fraction by Wt: 8%
Other REC Limits:NOE SPECIFIED
OSHA PEL:C, 2 MG/M3
ACGIH TLV:C 2 MG/M3; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:MANGANESE DIOXIDE
CAS:1313-13-9
RTECS #:OP0350000
Fraction by Wt: 37%
Other REC Limits:NONE SPECIFIED
OSHA PEL:C 5 MG MN/M3, T-DUST
ACGIH TLV:5 MG MN/M3 T-DUST 92

Ingred Name:ZINC (SARA III)
CAS:7440-66-6
RTECS #:ZG8600000
Fraction by Wt: 15%
Other REC Limits:NONE SPECIFIED
OSHA PEL:10 MG ZNO/M3, T-DUST
ACGIH TLV:10 MG ZNO/M3;TDUST92
EPA
Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:MERCURY (SARA III)
CAS:7439-97-6
RTECS #:OV4550000
Fraction by Wt: 0.025%
Other REC Limits:NONE SPECIFIED
OSHA PEL:S, C, 0.1 MG/M3
ACGIH TLV:S, 0.05 MG/M3; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute an

d Chronic:THESE CHEMICALS ARE CONTAINED IN A SEALED CAN. RISK OF EXPOSURE OCCURS ONLY IF THE CELL IS MECHANICALLY OR ELECTRICALLY ABUSED. THE MOST LIKELY RISK IS ACUTE EXPOSURE WHEN A CELL LEAKS. POTASSIUM HYDR OXIDE IS CAUSTIC AND SKIN CONTACT CAN CAUSE BURNS. EYE CONTACT WITH POTASSIUM HYDROXIDE MAY CAUSE PERMANENT INJURY.

Effects of Overexposure:SKIN AND EYE CONTACT WITH POTASSIUM HYDROXIDE MAY CAUSE CHEMICAL BURNS. AT ELEVATED TEMPERATURES, MERCURY VAPOR MAY BE GENERATED WHICH SHOULD NOT BE INHALED.

Medical Cond Aggravated by Exposure:AN ACUTE EXPOSURE WILL NOT GENERALLY AGGRAVATE ANY MEDICAL CONDITION.

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

First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. SKIN: IF LEAKAGE FROM CELL CONTACTS SKIN, FLUSH WITH LARGE AMOUNTS OF WATER. INHALATION: MOVE TO FRESH AIR. INGESTION: GET MEDICAL ATTENTION.

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

Extinguishing Media:USE MEDIA SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT WHEN A LARGE NUMBER OF CELLS ARE INVOLVED IN A FIRE.

Unusual Fire/Explosion Hazard:CELLS MAY RELEASE TOXIC MERCURY VAPORS WHEN INTEGRITY OF THE CANS IS BROKEN.

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

Spill Release Procedures:AVOID SKIN AND EYE CONTACT. DO NOT INHALE VAPORS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:AVOID MECHANICAL OR ELECTRICAL ABUSE. STORE AT ROOM TEMPERATURE. DO NOT ATTEMPT TO RECHARGE. DO NOT DISPOSE IN FIRE.

Other Precautions:INSTALL CELLS IN ACCORDANCE WITH EQUIPMENT INSTRUCTIONS. REPLACE ALL BATTERIES IN EQUIPMENT AT THE SAME TIME. DO NOT MIX BATTERY SYSTEMS SUCH AS ALKALINE AND ZINC CARBON IN SAME EQUIPMENT. DO NOT CARRY BATTERIES

TERIES LOOSE IN POCKET OR BAG.

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

Respiratory Protection:NIOSH/MSHA APPROVED SCBA WHEN LARGE NUMBER OF CELLS ARE INVOLVED IN A FIRE.

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

Protective Gloves:NEOPRENE, RUB/LATEX-NITRILE/FOR LEAKERS

Eye Protection:SAFETY GLASSES WHEN HANDLING LEAKERS.

Other Protective Equipment:NONE.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

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

HCC:N1

Boiling Pt:B.P. Text:2408F,1320C

Melt/Freeze Pt:M.P/F.P Text:680F,360C

Vapor Pres:VERY LOW

Spec Gravity:5.0 (MNO2)

Appearance and Odor:RECTANGULAR WITH ROUNDED CORNERS. LENGTH 1.9 IN., WIDTH 0.7 IN., HEIGHT 1.0 IN.

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

Stability Indicator/Materials to Avoid:YES

NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:DO NOT HEAT, DIS ASSEMBLE, OR RECHARGE.

Hazardous Decomposition Products:WHEN HEATED, CELLS MAY EMIT HAZARDOUS VAPORS OF MERCURY AND CAUSTIC POTASSIUM HYDROXIDE.

Conditions to Avoid Polymerization:WIL NOT OCCUR.

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

Waste Disposal Methods:IN SMALL QUANTITIES, CELLS MAY BE DISPOSED OF WITH HOUSEHOLD TRASH. OPEN CELLS IN LARGE QUANTITIES SHOULD BE TREATED AS A HAZARDOUS WASTE. DO NOT INCINERATE SINCE CELLS MAY EXPLODE AT EXCESSIVE TE

MPER ATURE. DISPOSE I/A/W ALL LOCAL, STATE,
& FED REGS.

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.