

DURACELL INC -- 7K67 ALKALINE MANGANESE DIOXIDE CELL -- 6135-01-275-1363
===== Product Identification =====

Product ID:7K67 ALKALINE MANGANESE DIOXIDE CELL
MSDS Date:01/17/1994
FSC:6135
NIIN:01-275-1363
MSDS Number: CDCKW
=== Responsible Party ===
Company Name:DURACELL INC
Address:BERKSHIRE INDUSTRIAL PK BLDG 9
City:BETHEL
State:CT
ZIP:06801-5000
Country:US
Info Phone Num:203-796-4292/617-449-7600

Emergency Phone Num:203-796-4292/617-449-7600
CAGE:GO384
=== Contractor Identification ===
Company Name:DURACELL INC
Address:BERKSHIRE INDUSTRIAL PK BLDG 9
City:BETHEL
State:CT
ZIP:06801-5000
Country:US
Phone:203-796-4292/617-449-7600
CAGE:GO384
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

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

Ingred Nam

e:POTASSIUM HYDROXIDE
CAS:1310-58-3
RTECS #:TT2100000
Fraction by Wt: 8%
Other REC Limits:2 MG/CUM (CEILING)
OSHA PEL:2 MG/CUM (CEILING)
ACGIH TLV:2 MG/CUM (CEILING)
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:MANGANESE DIOXIDE, MANGANESE PEROXIDE *96-4*
CAS:1313-13-9
RTECS #:OP0350000
Fraction by Wt: 37%
OSHA PEL:5 MG/CUM
ACGIH TLV:5 MG/CUM

Ingred Name:ZINC
CAS:7440-66-6
RTECS #:ZG8600000
Fraction by Wt: 15%
OSHA PEL:15 MG/CUM
ACGIH TLV:10 MG/CUM
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:10
00 LBS

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: 11%

Ingred Name:CARBON, ACTIVATED CARBON, GRAPHITE
CAS:7440-44-0
RTECS #:FF5250100
Fraction by Wt: 4%
OSHA PEL:3.5 10 MG/CUM
ACGIH TLV:3.5 MG/CUM

Ingred Name:STEEL
Fraction by Wt: 18%
OSHA PEL:10 MG/CUM
ACGIH TLV:10 MG/CUM

Ingred Name:BRASS
Fraction by Wt: 2%
OSHA PEL:10 MG/CUM
ACGIH TLV:10 MG/CUM

Ingred Name:PLASTIC
Fraction by Wt: 4%

Ingred Name:PAPER, SILICA GEL
Fraction by Wt: 1%

Ingred Name:MERCURY, QUICKSILVER

(IARC CARCINOGEN GROUP 3) *96-4*
CAS:7439-97-6
RTECS #:OV4550000
Other REC Limits:INORGANIC 0.1 MG/CUM
OSHA PEL:0.05 MG/CUM
ACGIH TLV:0.01 MG/CUM (SKIN)
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:THESE CHEMICALS ARE CONTAINED IN A
SEALED CAN. RISK OF EXPOSURE OCCURS ONLY IF BATTERY IS

MECHANICALLY, PHYSICALLY/ELECTRICALLY ABUSED. SKIN & EYE CONTACT
W/POTASSIUM HYDROXIDE MAY CAUSE CHEMICAL BURN S & PERMANENT EYE
INJURY.

Explanation of Carcinogenicity:NONE
Effects of Overexposure:CHEMICAL BURNS.

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

First Aid:SKIN/EYES: IMMEDIATELY FLUSH W/COPIOUS AMOUNTS OF WATER FOR
15 MINS. OBTAIN MEDICAL ATTENTION IN ALL CASES.

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

Fire Fighting P
rocedures:WEAR SCBA WHEN A LARGE NUMBER OF CELLS ARE
INVOLVED IN A FIRE.
Unusual Fire/Explosion Hazard:CELLS MAY RELEASE TOXIC ZINC FUMES WHEN
EXPOSED TO FIRE.

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

Spill Release Procedures:AVOID SKIN & EYE CONTACT.

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

Handling and Storage Precautions:STORE AT ROOM TEMP. AVOID SKIN & EYE
CONTACT. DON'T ATTEMPT TO RECHARGE. INSTALL CELLS IAW/EQUIPMENT

INSTRUCTIONS. DON'T DISPOSE OF IN FIRE.

Other Precautions:REPLACE ALL BATTERIES IN EQUIPMENT AT SAME TIME.

DON'T MIX BATTERY SYSTEMS SUCH AS ALKALINE & ZINC CARBON IN SAME EQUIPMENT. DON'T CARRY BATTERIES LOOSE IN POCKET/BAG.

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

Respiratory Protection:SCBA WHEN LARGE NUMBERS OF CELLS ARE INVOLVED IN A FIRE.

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

Protective Gloves:NEOPRENE, RUBBER
/LATEX-NITRILE

Eye Protection:SAFETY GLASSES

Other Protective Equipment:NONE

Supplemental Safety and Health

MSDS INFORMATION IS FOR MANGANESE DIOXIDE.

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

Melt/Freeze Pt:M.P/F.P Text:995F

Spec Gravity:5

Solubility in Water:0%

Appearance and Odor:BLACK POWDER

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

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:HEAT, DISASSEMBLY, RECHARGE,

MECHANICAL/PHYSICAL/ELECTRICAL ABUSE, HIGH TEMPS, FIRE.

Hazardous Decomposition Products:WHEN HEATED: HAZARDOUS FUMES OF ZINC & CAUSTIC POTASSIUM HYDROXIDE.

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

Waste Disposal Methods:SMALL QUANTITIES: DISPOSE OF W/HOUSEHOLD TRASH.

LARGE QUANTITIES: TREAT AS IF A HAZARDOUS WASTE. DON'T INCINERATE SINCE CELLS MAY EXPLODE AT EXCESSIVE TEMPS. DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS.

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