

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:203-796-4292/617-449-760

0

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 Na

me: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:1

000 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

Procedures: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.

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.