

DURACELL INC -- MN1300 (D) ALKALINE MANGANESE DIOXIDE CELL -- 6135-01-050-3193

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Product Identification
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Product ID:MN1300 (D) ALKALINE MANGANESE DIOXIDE CELL

MSDS Date:01/17/1994

FSC:6135

NIIN:01-050-3193

MSDS Number: CDCJW

=== 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

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Composition/Information on Ingredients
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Ingred Name: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
D
OT Rpt Qty:1000 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 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, QU

ICKSILVER (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

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===== 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 BATTE

RY 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.

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

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

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===== 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.

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

Spill Release Procedures:AVOID SKIN & EYE CONTACT.

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

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

IPMENT

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.

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Exposure Controls/Personal Protection
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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:NEOPRE
NE, RUBBER/LATEX-NITRILE

Eye Protection:SAFETY GLASSES

Other Protective Equipment:NONE

Supplemental Safety and Health

MSDS INFORMATION IS FOR MANGANESE DIOXIDE.

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Physical/Chemical Properties
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Melt/Freeze Pt:M.P/F.P Text:995F

Spec Gravity:5

Solubility in Water:0%

Appearance and Odor:BLACK POWDER

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Stability and Reactivity Data
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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.

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Disposal Considerations
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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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