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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

F

mergency Phone Num:203-796-4000 OR 617-449-7600 Preparer's Name:JIM 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 ========

In

gred Name:POTASSIUM HYDROXIDE (SARA III)

CAS:1310-58-3

RTECS #:TT2100000 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

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

ATTEN TION.

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:AVOI D SKIN AND EYE CONTACT. DO NOT INHALE VAPORS.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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 CARR Y BATTERIES 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 Hygi enic 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 SPECIFI ED BY MANUFACTURER. Stability Condition to Avoid: DO NOT HEAT, DISASSEMBLE, 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 WAS

TE. DO NOT INCINERATE SINCE CELLS MAY EXPLODE AT EXCESSIVE TEMPER ATURE. DISPOSE I/A/W ALL LOCAL, STATE, & FED REGS.

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