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DURACELL INC TECHNICAL SALES & MARKETING GROUP -- MERCURIC OXIDE CELL 303654A -- 6135-00-838-0706

Product ID:MERCURIC OXIDE CELL 303654A MSDS Date:03/04/1997 FSC:6135 NIIN:00-838-0706 MSDS Number: BJZWZ === Responsible Party === **Company Name: DURACELL INC TECHNICAL SALES & MARKETING GROUP** Address: BERKSHIRE INDUSTRIAL PARK BLDG 9 **City:BETHEL** State:CT ZIP:06801 Cou ntry:US Info Phone Num:800-243-9540/FAX 203-796-4518 Emergency Phone Num:203-796-4682/4575 Preparer's Name: EH & S DEPARTMENT CAGE:90303 === 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: MORTON A D CO INC (216-946-5373) CAGE:0GV58 Ingred Name: POTASSIUM HYDROXID E (CERCLA) CAS:1310-58-3 RTECS #:TT2100000 Fraction by Wt: 9% Other REC Limits:NONE RECOMMENDED OSHA PEL:C 2 MG/M3 ACGIH TLV:C 2 MG/M3; 9596 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS Ingred Name: MERCURIC OXIDE (SARA 302/313) (CERCLA) CAS:21908-53-2 RTECS #:OW8750000 Fraction by Wt: 35-45% Other REC Limits:NONE RECOMMENDED OSHA PEL:0.1 MG (HG)/M3; Z-2 ACGIH TLV:S,0.025 MG(HG)/M3;96 Ingred Name: MERCURY (SARA 313) (CERCLA) CAS:7439-97-6

RTECS #:0V4550000

RECOMMENDED OSHA PEL:C, 0.1 MG/M3; Z-2 ACGIH TLV:S,0.025 MG/M3; A4;96 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:ZINC (SARA 313) (CERCLA) CAS:7440-66-6 RTECS #:ZG8600000 Fraction by Wt: 15% Other REC Limits:10 MG/M3 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:MANGANESE OXIDE CAS:1317-35-7 RTECS #:OP0895000 Fraction by Wt: 6% Other REC Limits:NONE RECOMMENDED OSHA PEL:C 5 MG(MN)/M3 ACGIH TLV:5 MG (MN)/M3; 9596

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE AND CHRONIC- RISK OF EXPOSURE OCCURS ONLY IF CELL IS MECHANICALLY, PHYSICALLY OR ELECTRICALLY ABUSED. KOH IS CAUSTIC AND MAY CAUSE SKIN BURNS, SEVERE EYE INJURY. AT ELEVATED TEMPERATURES, MERCUR Y VAPORS MAY BE GENERATED WHICH CAN CAUSE MERCURY INTOXICATION.

Explanation of Carcinogenicity:MFR LISTED NO FURTHER INFORMATION ABOUT T

HE CARCINOGENICITY OF THIS MATERIAL.

Effects of Overexposure:SKIN & EYE CONTACT WITH KOH 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:IF LEAKAGE FROM CELL COMES INTO CONTACT WITH THE SKIN, FLUSH IMMEDIATELY WITH WATER. FOR EYE CON TACT, FLUSH EYES IMMEDIATELY WITH COPIOUS AMOUNTS OF WATER FOR 15 MINUTES AND SEE A PHYSICIAN AT ONCE. F OR INHALATION OF HG VAPORS, REMOVE TO FRESH AIR. IF SWALLOWED, CONSULT PHYSICIAN AT ONCE. FOR INFO, CALL NATIONAL POISON CONTROL CENTER, 202-625-3333. Flash Point:NONE Extinguishing Media:MFR: "N/A" HMIS: USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH **APPROVED SCBA &** FULL PROTECTIVE EQUIPMENT WHEN FIGHTING FIRE WHERE THESE CELLS ARE INVOLVED. Unusual Fire/Explosion Hazard: CELLS MAY RELEASE TOXIC MERCURY VAPOR WHEN THE INTEGRITY OF THE CELL IS BROKEN. Spill Release Procedures: HMIS: BATTERY AND CELL CASES WILL NORMALLY CONTAIN MATERIALS OF CONCERN. USE INDUSTRIAL ABSORBENT TO COLLECT LIQUID POTASSIUM HYDROXIDE. MFR: AVOID SKIN AND EYE CONTACT. DO NOT IN HALE VAPORS. Neutralizing Agent:WEAK ACID FOR POTASSIUM HYDROXIDE Handling and Storage Precautions: STORE AT ROOM TEMPERATURE. AVOID BREAKING, CRUSHING OR OTHERWISE DESTROYING THE PHYSICAL INTEGRITY OF BATTERY. OBSERVE THE CORRECT POLARITY. Other Precautions: DO NOT INCINERATE. DO NOT TOUCH BROKEN OR LEAKING BATTERIES. AVOID MECHANICAL OR ELECTRICAL ABUSE. DO NOT ATTEMPT TO RECHARGE. AVOID SHORT CIRCUITS. DO NOT CARRY BATTERIES LOOSE IN POCKET OR BAG. KEEP BATTERIES AWAY FROM SMALL CHILDREN. Respiratory Protection: SELF CONTAINED BREATHING APPARATUS IF CELLS ARE ENVOLVED IN A FIRE. Ventilation: WHEN CELLS ARE INVOLVED IN A FIRE USE AS MUCH VENTILATION AS POSSIBLE. Protective Gloves: NEOPRENE, LATEX-NITRILE, OR RUBBER Eve Protection: SAFETY GLASSES WHEN HANDLING LEAKERS Other Protective Equipment:NONE

Work Hygienic Practices:M

FR: ?. HMIS: USE GOOD CHEMICAL HYGIENE PRACTICE. AVOID UNNECESSARY CONTACT. WASH THOROUGHLY BEFORE EATING OR DRINKING. Supplemental Safety and Health REPLACE ALL BATTERIES IN EQUIPMENT AT THE SAME TIME. DO NOT MIX BATTERY SYSTEMS (I.E. MERCURY, ALKALINE, ZINC-CARBON) IN THE SAME EQUIPMENT. INSTALL CELLS ACCORDING TO EQUIPMENT INSTRUCTIONS. HCC:Z7 NRC/State Lic Num:NONE Appearance and Odor: DRY CELL TYPE BATTERY 01.060 IN O.D. X 3.000 IN LONG; 14 VOLTS. Stability Indicator/Materials to Avoid:YES NO INFORMATION GIVEN ON MSDS BY MFR. Stability Condition to Avoid:DO NOT HEAT, DISASSEMBLE, PUNCTURE OR RECHARGE Hazardous Decomposition Products: WHEN HEATED, CELLS MAY EMIT TOXIC MERCURY VAPORS AND CAUSTIC POTASSIUM HYDROXIDE.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

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

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Waste Disposal Methods:DISPOSE I/A/W FEDERAL, STATE & LOCAL REGULATIONS. NO SPECIAL PRECAUTIONS ARE NECESSARY FOR SMALL QUANTITIES OF MERCURY BATTERYS. FOR DISPOSAL OF LARGE QUANTITIES OF BATTERYS, CONSULT LOCAL ENVIRONMENT AL AGENCYS OR DURACELL. DO NOT INCINERATE!

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