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DURACELL INC TECHNICAL SALES & MARKETING GROUP -- 303534 MERCURIC OXIDE CELL -- 6135-00-168-3722

Product ID:303534 MERCURIC OXIDE CELL MSDS Date:01/11/1989 FSC:6135 NIIN:00-168-3722 MSDS Number: BJNTY === Responsible Party === Company Name: DURACELL INC TECHNICAL SALES & MARKETING GROUP Address: BERKSHIRE INDUSTRIAL PARK BLDG 9 City:BETHEL State:CT ZIP:06801 Countr y:US Info Phone Num:203-796-4292 Emergency Phone Num:203-796-4654/617-449-7600 Preparer's Name: JIM DONAHUE 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 Ingred Name: POTASSIUM HYDROXIDE (SARA III) CAS:1310-58-3 RTECS #:TT2100000 Other REC Limits:NONE SPECIFI ED 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: MERCURIC OXIDE (SARA III) CAS:21908-53-2 RTECS #:OW8750000 Other REC Limits:NONE SPECIFIED OSHA PEL:0.1 MG HG/M3;SKIN;C ACGIH TLV:0.1 MG HG/M3; 9192 Ingred Name:MERCURY (SARA III) CAS:7439-97-6 RTECS #:0V4550000 Other REC Limits:NONE SPECIFIED OSHA PEL:S, C, 0.1 MG/M3 ACGIH TLV:S, 0.05 MG/M3; 9192

EPA Rpt Qtv:1 LB

0 Other REC Limits:NONE SPECIFIED OSHA PEL:10 MG ZNO/M3 ACGIH TLV:10 MG ZNO/M3; 9192 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:MANGANESE DIOXIDE CAS:1313-13-9 RTECS #:OP0350000 Other REC Limits:NONE SPECIFIED OSHA PEL:5 MG/M3 CEILING ACGIH TLV:5 MG/M3 (AS MN DUST)

=========	Hazards Identif	fication =======	
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Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:BATTERY IS S EALED. RISK OF EXPOSURE

OCCURS ONLY IF THE CELL IS MECHANICALLY OR ELECTRICALLY ABUSED. IF CELL LEAKS, KOH IS CAUSTIC. SKIN CONTACT CAN PRODUCE BURNS. EYE CONTACT CAN RESULT IN SEVERE, PER MANENT INJURY. AT ELEVATED TEMPERATURES, HG VAPOR GENERATED CAN PRODUCE MERCURY INTOXICATION. Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:SKIN AND EYE CONTACT WITH KOH MAY CAUSE CHEMICAL BU

RNS. 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:EYES: FLUSH WITH RUNNING WATER FOR 15 MINUTES WHILE HOLDING EYELID. GET MEDICAL ATTENTION IMMEDIATELY. SKIN: WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING. INHALATION OF MERCURY VAPORS: REMOVE T

O FRESH AIR. GET MEDICAL ATTENTION.

Autoignition Temp:Autoignition Temp Text:NONE Extinguishing Media:NONE SPECIFIED BY MANUFACTURER. Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. Unusual Fire/Explosion Hazard:CELLS MAY RELEASE TOXIC MERCURY VAPOR WHEN THE INTEGRITY OF THE CAN IS BROKEN.

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

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Spill Release Procedures: AVOID SKIN AND EYE CONTACT. DO NOT INHALE VAPORS. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER. Handling and Storage Precautions: USE NEOPRENE, RUBBER OR LATEX-NITRILE GLOVES WHEN HANDLING LEAKERS. STORE AT ROOM TEMPERATURE. DO NOT INCINERATE, SINCE CELLS MAY EXPLODE. Other Precautions: AVOID MECHANICAL OR ELECTRICAL ABUSE. DO NOT ATTEMPT TO RECHARGE. AVOID SHORT C **IRCUITS. INSTALL CELLS IN ACCORDANCE WITH** EQUIPMENT INSTRUCTIONS. OBSERVE CORRECT POLARITY WHEN INSERTING INTO EQUIPMENT. DO NOT DISPOSE OF IN FIRE(MAY EXPLODE). Respiratory Protection: SELF-CONTAINED BREATHING APPARATUS WHEN CELLS ARE INVOLVED IN A FIRE. Ventilation:SUBSEQUENT TO A FIRE, PROVIDE AS MUCH VENTILATION AS POSSIBLE. Protective Gloves: NEOPRENE OR NATURAL RUBBER GLOVES Eye Protection: SAFETY GLASSES W HEN HANDLING LEAKERS. Other Protective Equipment:NONE Work Hygienic Practices:NONE Supplemental Safety and Health 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 CARRY BVATTERIES LOOSE IN POCKET, PURSE, OR BAG. KEEP BATTERI ES AWAY FROM SMALL CHILDREN. IF SWALLOWED, CONSULT A PHYSICIAN AT ONCE. HCC:N1 Boiling Pt:B.P. Tex t:675F (HG) Melt/Freeze Pt:M.P/F.P Text:680F (KOH) Decomp Temp:Decomp Text:932F,500C Vapor Pres:NIL Spec Gravity:2.0 (KOH) pH:BASIC Solubility in Water: APPRECIABLE

Appearance and Odor:CYLINDRICAL 24 VOLT BATTERY 3.5 INCHES DIA X 2.625 INCHES LONG. W/ SOLDER TABS

Percent Volatiles by Volume:0

Stability Indicator/Materials to Avoid:YES NONE SPECIFIED BY MANUFACTURER. Stability Condition to Avoid:DO NOT HEAT, DISASSEMBLE, CRU

## SH, PUNCTURE OR RECHARGE. Hazardous Decomposition Products:WHEN HEATED, CELLS MAY EMIT HAZARDOUS HG VAPORS AND CAUSTIC KOH.

Waste Disposal Methods:NO SPECIAL PRECAUTIONS ARE REQUIRED FOR THE DISPOSAL OF SMALL QUANTITIES OF SPENT MERCURY BATTERIES. CHECK WITH YOUR LOCAL ENVIRONMENTAL AGENCIES OR DURACELL FOR INFORMATION REGARDING THE PROPER DISPO SAL OF LARGE QUANTITIES OF MERCURY BATTERIES.

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