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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

======= Composition/Information on Ingredients ========

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 #: OV4550000

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)

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 =

_____ Spill Release Procedures: AVOID SKIN AND EYE CONTACT. DO NOT INHALE VAPORS. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. ============= Handling and Storage ========================== 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). ====== Exposure Controls/Personal Protection ======== 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 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.

REPLACE ALL BATTERIES IN EQUIPMENT AT THE SAME TIME. DO NOT MIX BATTERY

========= Physical/Chemical Properties ===========

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 and Reactivity Data ===========

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.

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

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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