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DURACELL USA -- MERCURIC OXIDE CELL -- 6135-01-086-0809

============= Product Identification ==============

Product ID:MERCURIC OXIDE CELL

MSDS Date:01/11/1989

FSC:6135

NIIN:01-086-0809

MSDS Number: BGLDF === Responsible Party ===

Company Name: DURACELL USA

Address:BERKSHIRE INDUSTRIAL PARK

City:BETHEL State:CT ZIP:06801 Country:US

Info Phone Num:203-796-4292

Emergency Phone Num:203-796-4654/617-449-7600

CAGE:DO224

=== Contractor Identification ===

Company Name: DELTA CONCEPTS, INC

Address:100 BROADHOLLOW RD, SUITE 308-9

Box:City:FARMINGDALE

State:NY ZIP:11735 Country:US CAGE:0CLE1

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/Informatio

n on Ingredients =======

Ingred Name:POTASSIUM HYDROXIDE (SARA III)

CAS:1310-58-3

RTECS #:TT2100000

Other REC Limits: NONE 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: 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 Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name: ZINC (SARA III)

CAS:7440-66-6

RTECS #:ZG8600000

Other REC Limits:NONE SPECIFIED OSHA PEL:10 MG ZNO/M3,TDUST ACGIH TLV:10 MG ZNO/M3;TD,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 Identification ===========================

Route

s of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: CHEMICALS ARE CONTAINED IN A SEALED CAN. EXPOSURE OCCURS ONLY IF THE CELL IS MECH.OR ELECT.ABUSED. THE MOST LIKELY RISK IS ACUTE EXPOSURE WHEN A CELL LEAKS. KOH IS CAUSTIC. SKIN CONTACT CAN PRODUCE BU RNS. EYE CONTACT CAN RESULT IN SEVERE, PERMANENT INJURY. AT ELEVATED TEMP'S. HG VAPOR CAN PRODUCE MERCURY INTOXICATION. Effects of Overexposu re:SLIN AND 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 CONTACT, FLUSH EYES WITH LARGE AMOUNT OF WATER AND GET M EDICAL ATTENTION. FOR INHALATION OF HG VAPORS, REMOV E TO FRESH AIR. KEEP BATTERIES AWAY FROM SMALL CHILDREN. IF SWALLOWED, GET MEDICAL ATTENTION. Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE SELF-CONTAINED BREATHING APPARATUS WHEN CELLS ARE INVOLVED IN A FIRE. Unusual Fire/Explosion Hazard: CELLS MAY RELEASE TOXIC MERCURY VAPOR WHEN THE INTEGRITY OF THE CAN IS BROKEN. ======= Accidental Rele ase 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:STORE AT ROOM TEMPERATURE.

Other Precautions:AVOID MECHANICAL OR ELECTRICAL ABUSE, DO NOT ATTEMPT TO RECHARGE (MAY CAUSE LEAKAGE, RUPTURE OR EXPLOSION). DO NOT DISPOSE OF IN FIRE (MAY EXPLODE). DO NOT MIX BATTERY SYSTEMS SUCH

AS ALKALINE AND ZIN C CARBON IN SAME EQUIPMENT. AVOID SHORTS.

====== Exposure Controls/Personal Protection ========

Respiratory Protection: NONE NORMALLY REQUIRED. HOWEVER, IF CELLS ARE INVOLVED IN A FIRE WEAR SELF-CONTAINED BREATHING APPARATUS.

Ventilation: NORMAL ROOM VENTILATION.

Protective Gloves: NEOPRENE OR RUBBER FOR HANDLING LEAKERS.

Eye Protection: SAFETY GLASSES WHEN HANDLING LEAKERS.

Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices

:IF LEAKERS ARE HANDLED, WASH AFTER HANDLING AND BEFORE EATING DRINKING OR SMOKING. LAUNDER SOILED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

CHECK WITH YOUR LOCAL ENVIRONMENTAL AGENCY OR DURACELL FOR INFORMATION REGARDING THE PROPER DISPOSAL OF LARGE QUANTITIES OF MERCURY BATTERIES. LARGE QUANTITIES OF OPEN CELLS SHOULD BE TREATED AS HAZAR DOUS WASTE.

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

HCC:N1

Boiling Pt:B.P. Text:675F,357C

Spec

Gravity: 13.6 (HG)

Solubility in Water:50 (KOH), 5 (HGO)

Appearance and Odor:KOH,CLEAR LIQ;HGO,ORANGE-RED PWDR;HG,SILVERY LIQ;HG/ZN,GREY PWDR;MNO2,BLACK PWD

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

Stability Indicator/Materials to Avoid:YES

NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:DO NOT HEAT, DISASSEMBLE, CRUSH, PUNCTURE, OR RECHARGE.

Hazardous Decomposition Products:WHEN HEATED, CELLS MAY EMIT HAZARDOUS HG VAPORS AND CAUSTIC KOH.

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

Waste Disposal Methods:CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER.
DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL
REGULATIONS. NO SPECIAL PRECAUTIONS REQUIRED FOR DISPOSAL OF SMALL
QUANTITIES OF MERCURY BATTERIE S. DO NOT INCINERATE, SINCE CELLS
MAY EXPLODE.

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