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DURACELL INC TECHNICAL SALES & MARKETING GROUP -- MERCURIC OXIDE CELL 6135-00-801-0587

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

Product ID:MERCURIC OXIDE CELL

MSDS Date: 09/26/1990

FSC:6135

NIIN:00-801-0587

MSDS Number: BJZWW === Responsible Party ===

Company Name: DURACELL INC TECHNICAL SALES & MARKETING GROUP

Address:BERKSHIRE INDUSTRIAL PARK BLDG 9

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

ne Num:203-796-4292

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

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 SPECIFIED

OSHA PEL:C, 2 MG/M3 ACGIH TLV:C 2 MG/M 3; 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 PE

L: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 MN/M3 CEILING

ACGIH TLV:5 MG MN/M3

========== Hazards Identification =================

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

Health Hazards Acute and Chronic: EXPOSURE TO MERCURY-ACUTE:

SKIN: IRRITATION, ANURIA. EYE:

- IRRITATION, CORNEAL INJURY OR BURNS.
 INGESTION:IMMEDIATE NECROSIS IN MOUTH, THROAT, ESOPHAGUS & STOMACH.
 DEATH MAY OCCURE. INHALATION:DYSPNEA, C OUGH, FEVER, NAUSEA &
 VOMITING, DIARRHEA, STOMATITIS, SALIVATION & METALLIC TASTE.
- Explanation of Carcinogenicity: MERCURY, ZINC AND MANGANESE ARE NOT LISTED BY IARC, NTP, OR OSHA AS CARCINOGENS.
- Effects of Overexposure:TREMORS, CONVULSIONS & OTHER CNS DISTURBANCES, PNEUMONITIS, CHEST PAINS, DYSPNEA, COU
- GHING, STOMATITIS, GINGIVITIS

CHRONIC: CNS DISTURBANCES.

- AND LOOSENING OF TEETH, SALIVATION, LOSS OF MEMORY, METALLIC TASTE, DIZZINESS, CLUMSI NESS, SLURRED SPEECH, DIARRHEA, PAIN & NUMBNESS IN EXTREMITIES, NEPHRITIS, ANXIETY, HEADACHE, WEIGHT LOSS, AND INSOMNIA.
- Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF ALCOHOLISM, CHRONIC KIDNEY DISEASE OR KNOWN ALLERGY TO MERCURY MAY BE AT INCREASED RISK FROM EXPOSURE TO MERCURY IF THE BATTERY IS RUPTURED.

=======	=========	First
Aid Measures	=========	========

First Aid:IF EXPOSED TO RUPTURED BATTERY-INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE CPR/OXYGEN. GET MEDICAL ATTENTION. EYE: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES. GET MEDICAL AT TENTION. SKIN: WASH SKIN WITH PLENTY OF SOAP & WATER. INGESTION: GET IMMEDIATE MEDICAL ATTENTION.

=======================================	Fire Fighting Measure	es =========
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- Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.
- Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.
- Unusual Fire/Explosion Hazard: COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS OF MERCURY. CELL MAY EXPLODE IN FIRE.

=======================================	Accidenta	al Release	Measures	=======================================
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Spill Release Procedures: PICK UP ALL BATTERIES. FOR A SMALL SPILL OF

Α RUPTURED BATTERY: COLLECT THE DUST WITH A VACUUM CLEANER AND SAVE FOR DISPOSAL. WASH THE AREA. Neutralizing Agent:NONE ============= Handling and Storage ========================== Handling and Storage Precautions: STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM HEAT. STACK CARTONS NO MORE THAN 4 LAYERS HIGH ON A PALLET AND NO MORE THAN 3 PALLETS HIGH. Other Precautions: DO NOT SEAL BATTERIES IN AIR TIGHT OR WATERTIGHT CONTAINERS OR COMPARTMENTS. DO NOT RUPTURE O R THROW BATTERIES IN FIRE. DO NOT RECHARGE BATTERIES. ===== Exposure Controls/Personal Protection ======== Respiratory Protection: NORMALLY NOT REQUIRED. WEAR MASK WHEN HANDLING DUST FROM RUPTURED BATTERY. Ventilation: GENERAL/LOCAL EXHAUST VENTILATION. Protective Gloves: RUBBER, IF HANDLING RUPTURED BATTERY. Eve Protection: NONE Other Protective Equipment: NONE REQUIRED. Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. Supplemen tal Safety and Health THERE ARE NO HEALTH HAZARDS IN HANDLING BATTERIES UNLESS THE BTTERIES ARE RUPTURED. WHEH HANDLING RUPTURED BATTERY DO NOT GET ON SKIN. IN EYES OR ON CLOTHING. DO NOT BREATHE VAPORS. ======== Physical/Chemical Properties ============ Appearance and Odor:CYLINDRICAL BATTERY

HCC:N1

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

Stability Indicator/Materials to Avoid:YES STRONG ACID AND BASES Stability Condition to Avoid:HIGH H

EAT.

Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS INCLUDE TOXIC MERCURY VAPORS, MOLTEN AND BURNING FUMES.

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

Waste Disposal Methods:DO NOT INCINERATE, BURY IN LANDFILL IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATION.

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