

DURACELL INC TECHNICAL SALES & MARKETING GROUP -- MERCURIC OXIDE CELL, RM12RT2 --
6135-00-725-3941

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

Product ID:MERCURIC OXIDE CELL, RM12RT2

MSDS Date:09/24/1992

FSC:6135

NIIN:00-725-3941

MSDS Number: BKSST

=== Responsible Party ===

Company Name:DURACELL INC TECHNICAL SALES & MARKETING GROUP

Address:BERKSHIRE INDUSTRIAL PARK BLDG 9

City:BETHEL

State:CT

ZIP:06801

C

Country:US

Info Phone Num:800-243-9540/FAX 203-796-4518

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

Company Name:LYNTRONICS, INC.(AMERICAN POWERCELL BATTERY CO)

Address:7 OLD DOCK RD

Box:City:YAPHANK

State:NY

ZIP:11980

Country:US

Phone:631-205-1061FX:631-205-1072

CAGE:0BSY9

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Composition/Information on Ingredients
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Ingred Name:POTASSIUM HYDROXIDE (SARA III)

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; 9293

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:MERCURIC OXIDE (SARA III)

CAS:21908-53-2

RTECS #:OW8750000

Fraction by Wt: 35 - 45%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.1 MG HG/M3;SKIN;C

ACGIH TLV:0.1 MG HG/M3; 9293

Ingred Name:MERCURY (SARA III)

CAS:7439-97-6

RTECS #:OV4550000

Fraction by Wt: < 1%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:S, C, 0.1 MG/M3

ACGIH TLV:S, 0.05 MG/M3; 9293

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:ZINC (SARA III)

CAS:7440-66-6

RTECS #:ZG8600000

Fraction by Wt: 12%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:10 MG ZNO/M3

ACGIH TLV:10 MG ZNO/M3; 9293

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

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SHA PEL:(C),5 MG/M3(MN)
ACGIH TLV:5 MG MN/M3; 9293

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Hazards Identification
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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, MERCURY VAPORS MAY BE GENERATED WHICH
CAN CAUSE MERCURY INTOXICATION.
Explanation of Carcinogenicity:MFR LISTED NO FURTHER INFORMATION ABOUT
THE 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.

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First Aid Measures
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First Aid:IF LEAKAGE FROM CELL COMES INTO CONTACT WITH THE SKIN, FLUSH
IMMEDIATELY WITH WATER. FOR EYE CONTACT, FLUSH EYES IMMEDIATELY
WITH COPIOUS AMOUNTS OF WATER FOR 15 MINUTES AND SEE A PHYSICIAN AT
ONCE. FOR INHALATION OF HG VAPORS, REMOVE TO FRESH AIR. IF
SWALLOWED, CONSULT PHYSICIAN AT ONCE. FOR INFO, CALL NATIONAL
POISON CONTROL CENTER, 202-625-3333.

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Fire Fighting Measures
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Flash Point:NONE
Extinguishing Media:
a: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:CELL MAY RELEASE TOXIC MERCURY VAPOR WHEN
THE INTEGRITY OF THE CELL IS BROKEN.

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Accidental Release Measures
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Spill Release Procedures:HMIS:BATTERY AND CELL CASES WILL NORMALLY
CONTAIN MATERIALS OF C

ONCERN. USE INDUSTRIAL ABSORBENT TO COLLECT
LIQUID POTASSIUM HYDROXIDE. MFR:AVOID SKIN AND EYE CONTACT. DO NOT
INHALE VAPORS.

Neutralizing Agent:WEAK ACID FOR POTASSIUM HYDROXIDE

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===== Handling and Storage =====

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.

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

Respiratory Protection:SELF CONTAINED BREATHING APPARATUS IF CELLS ARE
INVOLVED IN A FIRE.

Ventilation:WHEN CELLS ARE INVOLVED IN A FIRE USE AS MUCH VENTILATION
AS POSSIBLE.

Protective Gloves:NEOPRENE, LATEX-NITRILE
, OR RUBBER

Eye Protection:SAFETY GLASSES WHEN HANDLING LEAKERS

Other Protective Equipment:NONE

Work Hygienic Practices:MFR: ? HMIS:USE GOOD CHEMICAL HYGIENE
PRACTICE. AVOID UNNECESSARY CONTACT. WASH THOROUGHLY BEFORE EATING
OR DRINKING.

Supplemental Safety and Health

KEY2:KT 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.

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

HCC:N1

NRC/State Lic Num:NONE

Appearance and Odor:DRY CELL TYPE BATTERY0.62 IN O.D. X 1.953 IN LONG

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

Stability Indicator/Materials to Avoid:YES
NO INFORMATION GIVEN ON MSDS BY MFR.

Stability Condition to Avoid:HEAT, DISASSEMBLY, CRUSHING, PUNCTURE OR
RECHARGE

Hazardous Decomposition Products:TOXIC MERCURY VAPORS AND CAUSTIC
POTASSIUM HYDROXIDE

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= Disposal Considerations =====

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

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