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DURACELL INC -- LITHIUM MANGANESE DIOXIDE BATTERY, DL 223, 02202 -- 6135-01-214-6441

Product ID:LITHIUM MANGANESE DIOXIDE BATTERY, DL 223,02202

MSDS Date:10/10/1997

FSC:6135

NIIN:01-214-6441

MSDS Number: CHHRX
=== Responsible Party ===
Company Name: DURACELL INC

Address:BERKSHIRE CORPORATE PARK

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

Info Phone Num:203-796-4000

Em

ergency Phone Num:203-796-4682/203-796-4575

CAGE:GO384

=== Contractor Identification === Company Name: DURACELL INC

Address: BERKSHIRE INDUSTRIAL PK BLDG 9

City:BETHEL State:CT

ZIP:06801-5000

Country:US

Phone: 203-796-4292/617-449-7600

CAGE:GO384

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 (ALIAS BATTERY TECHNOLOGY COMPANY)

Address:305 NEW HIGHWAY

64 EAST

Box:City:LEXINGTON

State:NC

ZIP:27292-2037 Country:US

Phone:617-449-7600

CAGE:2A917

Company Name: EAGLE-PICHER ENERGY PRODUCTS CORP

Address:13136 82A AVENUE Box:City:SURREY, V3W 9Y6

State:BC Country:US

Phone:604-543-4350

CAGE:0E1R2

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

Ingred Name:LITHIUM METAL (LI), (0.5 G/CELL)

CAS:7439-93-2

RTECS #:OJ5540000

Other REC Limits: NONE RECOMMENDED

Ingred Name: MANGANESE DIOXIDE (MNO2), (5.6 G/CELL)

CAS:1313-13-9 RTECS #:OP0

350000

Other REC Limits:PEL=0.2MG/M3,DURACEL

OSHA PEL:5 MG MN/M3 CEILING

ACGIH TLV:5 MG MN/M3

Ingred Name: CARBON BLACK (0.4 G/CELL)

CAS:1333-86-4

RTECS #:FF5800000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:3.5 MG/M3

ACGIH TLV:3.5 MG/M3; 9495

Ingred Name:TEFLON (0.2 G/CELL)

Other REC Limits: NONE RECOMMENDED

Ingred Name: PROPYLENE CARBONATE (PC), (0.25 G/CELL)

CAS:108-32-7

RTECS #:FF9650000

Other REC Limits: NONE RECOMMENDED

Ingred Name: ETHYLENE CARBONATE (EC), (0.25 G/CELL)

Other REC Limits:NO

NE RECOMMENDED Ingred Name: DIMETHOXY ETHER (DME), (1.2 G/CELL) Other REC Limits: 3 PPM INDUSTRY STD Ingred Name:LITHIUM TRIFLUOROMETHANE SULFONATE (LITFS), (0.05 G/CELL) CAS:33454-82-9 Other REC Limits: 0.1 MG/M3 3M CO ============= Hazards Identification ======================== LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: CHEMICALS/METALS ARE CONTAINED IN SEALED CAN. RISK OF EXPOSURE OCCURS ONLY IF CELL LEAKS, EXPOSED TO HIGH TEMP, ACCIDENTALLY SWALLOWED, OR MECHANICALLY, PHYSICALLY, ELECTRICALLY ABUSED. CONTACT WITH E LECTROLYTE MAY CAUSE EYE AND SKIN IRRITATION. LITHIUM CAN CAUSE THERMAL/CHEMICAL BURNS. DME MAY BE REPRODUCTIVE HAZARD. **Explanation of Carcinogenicity:NONE** Effects of Overexposure: RISK OF EXPOSURE OCCURS ONLY IF CELL IS MECHANICALLY, PHYSICALLY OR ELECTRICALLY ABUSED. IF CELL IS **LEAKING** . CONTACT WITH ELECTROLYTE MAY CAUSE EYE AND SKIN IRRITATION. LITHIUM CAN CAUSE THERMAL AND C HEMICAL BURNS ON CONTACT WITH SKIN. DMAMAY BE REPRODUCTIVE HAZARD. INHALATION/INGESTION OF LITFS MAY BE HARMFUL. Medical Cond Aggravated by Exposure: AN ACUTE EXPOSURE WILL NOT GENERALLY AGGRAVATE ANY MEDICAL CONDITION. First Aid:IF LEAKAGE FROM A CELL CONTACTS THE SKIN, FLUSH IMMEDIATELY WITH WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. FOR EYE CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER AND GET MEDICAL ATTENTION AT ONCE, DO NOT INHALE VENTED MATERIAL, EMPLOYEE IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. IF INGESTED, GET

BREATHING VAPORS FROM VENTING CELL SHOULD BE REMOVED TO FRESH AIR. MEDICAL ATTENTION.

Flash Point: NOT RELEVANT

Extinguishing Media: DRY CHEMICAL, DRY SAND. COOL BATTERIES AND ADJACENT

STRUCTURES WITH WATER. Fire Fighting Procedures: CELLS CAN VENT WHEN SUBJECTED TO EXCESSIVE HEAT. WHEN LARGE NUMBERS OF CELLS ARE INVOLVED IN A FIRE, FIRE FIGHTERS SHOULD USE SCBA. Unusual Fire/Explosion Hazard: TOXIC FUMES MAY BE FORMED. ======== Accidental Release Measures ============ Spill Release Procedures: LEAVE AREA AND ALLOW BATTERIES TO COOL AND VAPORS TO DISSIPATE. AVOID SKIN AND EYE CONTACT. DO NOT INHALE VAPORS. REMOVE SPILLED LIQUID WITH ABSORBE NT AND INCINERATE.CLEANUP CREW SHOULD WEAR FULL-FACE RESPIRATOR (PARTICULATE/ORGANIC VAPOR CARTRIDGE). Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. ============ Handling and Storage =========================== Handling and Storage Precautions: STORE IN COOL, DRY PLACE. AVOID MECHANICAL, PHYSICAL, ELECTRICAL ABUSE. DO NOT SHORT CIRCUIT OR INSTALL WITH INCORRECT POLARITY. Other Precautions: BATTERIES MAY EXPLODE, PYROLIZE, OR VENT IF DISASSEMBLED, CRUSHED, RECHARGED , OR EXPOSED TO FIRE OR HIGH TEMPERATURES. DO NOT TOUCH BROKEN OR LEAKING BATTERIES. DO NOT ATTEMPT TO RECHARGE. DO NOT CARR Y BATTERIES LOOSE IN POCKET OR BAG. ===== Exposure Controls/Personal Protection ======== Respiratory Protection: USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS WHEN CELLS ARE INVOLVED IN A FIRE OR LEAKING IN CONFINED SPACES. FOR SPILL, USE FULL-FACE RESPIRATOR WITH PARTICULATE/ORGANIC CARTRIDGE. Ventilation:PROVIDE ADEQUATE VE NTILATION. IN CASE OF VENTING, PROVIDE AS MUCH VENTILATION AS POSSIBLE. Protective Gloves:BUTYL IF HANDLING LEAKERS. Eve Protection: SAFETY GLASSES WHEN HANDLING LEAKERS. Other Protective Equipment: NONE. Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. Supplemental Safety and Health

BATTERY CONTAINS 0.5 GRAM OF LITHIUM. SOLID CATHODE.

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:356F,18

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

OCLI
Spec Gravity:NOT RELEVANT
Evaporation Rate & Description Reference:NOT RELEVANT

Solubility in Water:NOT RELEVANT

Appearance and Odor:BATTERY - ODORLESS

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

Stability Indicator/Materials to Avoid:YES
NONE SPECIFIED BY MANUFACTURER.
Stability Condition to Avoid:DO NOT HEAT, DISASSEMBLE, RECHARGE, OR
SHORT CIRCUIT.

Hazardous Decomposition Products: TOXIC FUMES MAY BE FORMED.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL,STATE,FEDERAL REGULATIONS.TREAT OPEN CELLS AS HAZARDOUS WASTE.DISCHARGED CELLS ARE NON-HAZARDOUS AND CAN BE DISPOSED OF,IN SMALL AMOUNTS,WITH HOUSEHOLD TRASH.THESE BATTERIES ARE CONSIDERED TO BE NON-HAZARDOUS WASTE

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