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DURACELL USA (ALIAS BATTERY TECHNOLOGY COMPANY) -- LITHIUM/MANGANESE DIOXIDE

BATTERY,DL 223,02202 -- 6135-01-214-6441

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

MSDS Date:11/02/1993

FSC:6135

NIIN:01-214-6441

MSDS Number: BXVRG === Responsible Party ===

Company Name: DURACELL USA (ALIAS BATTERY TECHNOLOGY COMPANY)

Address:305 NEW HIGHWAY 64 EAST

Cit

y:LEXINGTON

State:NC ZIP:27292 Country:US

Info Phone Num:203-796-4292

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

CAGE:2A917

=== 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: 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

С

AGE:2A917

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

Ingred Name:LITHIUM METAL (0.5 G/CELL)

CAS:7439-93-2

RTECS #:OJ5540000

Other REC Limits: NONE RECOMMENDED

Ingred Name: MANGANESE DIOXIDE (5.6 G/CELL)

CAS:1313-13-9

RTECS #:OP0350000

Other REC Limits: NONE RECOMMENDED

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

ed Name:TEFLON (0.2 G/CELL) Other REC Limits: NONE RECOMMENDED Ingred Name: PROPYLENE CARBONATE (0.25 G/CELL) CAS:108-32-7 RTECS #:FF9650000 Other REC Limits: NONE RECOMMENDED Ingred Name: ETHYLENE CARBONATE (0.25 G/CELL) Other REC Limits: NONE RECOMMENDED Ingred Name: DIMETHOXY ETHER (1.2 G/CELL) Other REC Limits: 3 PPM INDUSTRY STD Ingred Name: LITHIUM TRIFLUOROMETHANE SULFONATE (0.1 G/CELL) CAS:33454-82-9 Other REC Limits: 0.1 MG/M3 3M CO ======= Hazards Identification ======== LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT RELEVANT. Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:RISK OF EXPOSURE OCCURS ONLY IF CELL IS MECHANICALLY, PHYSICALLY/ELECTRICALLY ABUSED. TARGET ORGANS:EYES, SKIN, RESPIRATORY TRACT. ACUTE- MAY CAUSE EYES AND SKIN IRRITATION. LITHIUM CAN CAUSE THERMAL AND CHEMICAL BURNS UPON CONTACT WITH THE SKIN. MAY BE HARMFUL IF INGESTED OR INH ALED. CHRONIC- NOT KNOWN. **Explanation of Carcinogenicity:NONE** Effects of Overexposure: RISK OF EXPOSURE OCCURS ONLY IF CELL IS MECHANICALLY, PHYSICALLY OR ELECTRICALLY ABUSED. IF CELL IS LEAKING: EYES, SKIN AND RESPIRATORY TRACT IRRITATION, THERMAL AND CHEMICAL BURNS

Medical Cond Aggravated by Exposure: NONE

First Aid:EMPLOYEE BREATHING VAPORS FROM VENTING CELL SHOULD BE REMOVED TO FRESH AIR. ANY SKIN, EYE O

R MUCOUS MEMBRANE CONTACT WITH ELECTROLYTE SHOULD BE FOLLOWED BY FLUSHING WITH LARGE AMOUNT OF WATER. IN CASE OF EYE CONTACT, CONSULT PHYSICIAN. INGESTION IS UNLIKELY. HOWEVER, CALL PHYSICIAN, IF OCCURED. Flash Point: NOT RELEVANT Extinguishing Media: DRY CHEMICAL OR DRY SAND. COOL BATTERIES AND ADJACENT STRUCTURES WITH WATER. Fire Fighting Procedures: WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED **SELF-CONTAIN** ED BREATHING APPARATUS OPERATED IN THE POSITIVE PRESSURE MODE. Unusual Fire/Explosion Hazard: TOXIC FUMES MAY BE FORMED. =========== Accidental Release Measures =============== Spill Release Procedures: IF CELL VENTS OR IS PUNCTURED, VENTILATE AREA WELL. WEAR EYE AND SKIN PROTECTION. RESPIRATORY PROTECTION MAY BE NECESSARY IN CONFINED SPACES. ABSORB LIQUID WITH SUITABLE MATERIAL SUCH AS SAND OR CLAY. TRANSFER TO CONTAINER FOR LATER DISPOSAL. Neutralizing Agent:NOT RE **LEVANT** ============= Handling and Storage ========================== Handling and Storage Precautions: STORE IN COOL, DRY PLACE. AVOID MECHANICAL, PHYSICAL OR ELECTRICAL ABUSE, DO NOT SHORT OR INSTALL WITH INCORRECT POLARITY. Other Precautions: DO NOT INCINERATE. DO NOT TOUCH BROKEN OR LEAKING BATTERIES. DO NOT ATTEMPT TO RECHARGE. DO NOT CARRY BATTERIES LOOSE IN POCKET OR BAG. KEEP BATTERIES AWAY FROM SMALL CHILDREN. BATTERIES MAY EXPLODE/V ENT IF DISASSEMBLED, CRUSHED /IN FIRE. ====== 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: ADEQUATE

Protective Gloves: BUTYL IF HANDLING LEAKERS

Eye Protection: SAFETY GLASSES WHEN HANDLING LEAKERS

Other Protective Equipment: EYE WASH STATION, QUICK DRENCH SHOWER

Work Hygieni

Supplemental Safety and Health
========= Physical/Chemical Properties ==========
HCC:F8 NRC/State Lic Num:NOT RELEVANT Melt/Freeze Pt:M.P/F.P Text:356F (LI) Spec Gravity:NOT RELEVANT Viscosity:NOT RELEVANT Evaporation Rate & amp; Reference:NOT RELEVANT Solubility in Water:NOT RELEVANT Appearance and Odor:BATTERY - ODORLESS
========= Stability and Reactivity Data ==========
S tability Indicator/Materials to Avoid:YES Stability Condition to Avoid:HEAT, RECHARGING, SHORT CIRCUITS, DISASSEMBLING Hazardous Decomposition Products:TOXIC FUMES MAY BE FORMED.

c Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND

RECOMMENDED PROCEDURES.

Waste Disposal Methods:DISCHARGED CELLS MAY CONTAIN SIGNIFICANT AMOUNT OF ENERGY AND SHOULD BE HANDLED WITH CARE. THEY SHOULD BE ELECTRICALLY ISOLATED AND PACKED FOR DISPOSAL. DO NOT COMPACT. DISPOSE OF IN ACCORDANCE WITH L OCAL, STATE AND FEDERAL LAWS.

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

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