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DURACELL USA (ALIAS BATTERY TECHNOLOGY COMPANY) -- 123A LITHIUM/MANGANESE DIOXIDE BATTERY -- 6135-01-351-1131

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

Product ID:123A LITHIUM/MANGANESE DIOXIDE BATTERY

MSDS Date:11/02/1993

FSC:6135

NIIN:01-351-1131

MSDS Number: BSDTV === Responsible Party ===

Company Name: DURACELL USA (ALIAS BATTERY TECHNOLOGY COMPANY)

Address:305 NEW HIGHWAY 64 EAST

City:LEXINGTON

Stat e:NC

ZIP:27292-2037 Country:US

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

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

CAGE:2A917

=== Contractor Identification ===

Company Name: BATTERY OUTLET INC

Address:1608 CAMPOSTELLA RD

Box:City:CHESAPEAKE

State:VA ZIP:23324 Country:US

Phone:757-545-4442

CAGE:0FGN2

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:DU

RACELL 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

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

Ingred Name:LITHIUM

CAS:7439-93-2

RTECS #:OJ5540000 Fraction by Wt: 0.5% G

Other REC Limits: NONE RECOMMENDED

Ingred Name: MANGANESE DIOXIDE

CAS:1313-13-9

RTECS #:OP0350000 Fraction by Wt: 5.6% G

Other REC Limits: NONE RECOMMENDED

OSHA PEL:5 MG MN/M3 CEILING

ACGIH TLV: 5 MG MN/M3

Ingred Name: CARBON BLACK

CAS:1333-86-4

RTECS #:FF5800000 Fraction by Wt: 0.4% G

Other REC Limits: NONE RECOMMENDED

OSHA PEL:3.5 MG/M3

ACGIH TLV:3.5 MG/M3; 9596

Ingred Name:TEFLON Fraction by Wt: 0.2% G

Other REC Limits: NONE RECOMMENDED

Ingred Name:PROPYLENE CARBONATE (PC)

CAS:108-32-7

RTECS #:FF9650000 Fraction by Wt: 0.25% G

Other REC Limits: NONE RECOMMENDED

Ingred Name: ETHYLENE CARBONATE (EC)

CAS:96-49-1

RTECS #:FF9550000 Fraction by Wt: 0.25% G

Other REC Limits: NONE RECOMMENDED

Ingred Name: DIMETHOXY ETHER (DME) Fraction by Wt: 1.2% G Other REC Limits: NONE RECOMMENDED Ingred Name:LITHIUM TRIFLUOROMETHANE SULFONATE (LITFS) CAS:33454-82-9 Fraction by Wt: 0.1% G Other REC Limits: NONE RECOMMENDED =========== 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: CHEMS CONTAINED IN SEALED CAN.RISK OF EXPO OCCURS ONLY IF BATT MECHANICALLY/ELECTRICALLY ABUSED.MOST LIKELY RISK IS ACUTE EXPO WHEN CELL VENTS.PC MILDLY IRRIT UPON EYE/SKIN CONTACT.DME BELIEVED TO BE SLIGHTLY TO MODERATELY TOXIC.CONTACT OFELECTROLYTE/EXTRUDED LITHIUM W/SKIN/EYES SHOULD BE AVOIDED.INHAL/INGEST (SUPPLE) **Explanation of Carcinogenicity:PER** MSDS:CARCINOGENICITY:NTP/IARC/OSHA:NO. Effects of Overexposure: IRRIT OF SKIN OR EYES. LITHIUM CAN CAUSE THERMAL & CHEMICAL BURNS UPO N CONTACT W/SKIN. DME MAY BE REPRODUCTIVE HAZARD. Medical Cond Aggravated by Exposure: AN ACUTE EXPOSURE WILL NOT GENERALLY AGGRAVATE ANY MEDICAL CONDITION. First Aid: IN CASE OF SKIN CONTACT W/CONTENTS OF BATT FLUSH IMMED W/WATER. FOR EYE CONTACT FLUSH W/COPIOUS AMTS OF WATER FOR 15MINS. DO NOT INHAL VENTED MATL. IF IRRIT PERSISTS GET MED HELP. Flash Point:SUPPLEMENTAL Autoignition Temp: Autoignition Temp Text: NP Lower Limits: 2.3 PC Upper Limits:NA

Extinguishing Media:WATER.

Fire Fighting Procedures: THE PREFERRED PROCEDURE IS TO RAPIDLY COOL BATTEIRES & ADJACENT STRUCTURES W/WATER. WHEN LG NUMBERS OF CELLS ARE INVOLVED N FIRE FIRE FIGHTERS SHOULD USE SCBA.

Unusual Fire/Explosion Hazard: CELLS CAN VENT WHEN SUBJ TO EXCESSIVE HEAT. WHEN LG NUMBERS OF CELLS ARE INVOLVED IN FIRE, FIREFIGHTERS SHOULD USE SCBA.

===== Accidental Release Measures =========

Spill Release Procedures:THE PREFERRED RESPONSE IS TO LEAVE AREA & ALLOW BATT TO COOL/VAP TO DISSIPATE.AVOID SKIN/EYE CONTACT OR INHAL OF VAPORS. REMOVE SPILLED LIQ W/ABSORBENT & INCINERATE. PREFERABLY CLEAN UP CREW SHOULD WE AR FULL-FACE RESP(PARTICULATE/ORG VAP CARTRIDGE).

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precauti ons:AVOID MECHANICAL,PHYSICIAL,OR ELECTRICAL ABUSE.

Other Precautions:BATT MAY EXPLODE,PYROLIZE,OR VENT IF DISASSEMBLED,CRUSHED,RECHARGED OR EXPOSED TO FIRE OR HIGH TEMPERATURE. DO NOT SHORT OR INSTALL W/INCORRECT POLARITY.

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

Respiratory Protection:SCBA (FIRE); FULL-FACE RESPIRATOR W/PARTICULATE/ORGANIC CARTRIDGE (SPILL).

Ventilation: IN CASE OF VENTING, PROVIDE AS MUCH VENTILATION AS POSSIBLE.

Protective Glov

es:BUTYL GLOVES.

Eye Protection: SAFETY GLASSES.

Other Protective Equipment:NONE.

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

PHY/CHEM CHARA:BPT(C):EC 244;PC 242;DME 85;VAP PRESS@20C:EC 0.01;PC 0.03;DME 61;VAP DENS:EC 3.04;DME 3.1;SOLUBITLITY:EC/PC MODERATELY;DME/LITFS COMPLETELY;SPEC GRAV:EC 1.322;PC 1.203;MNO2 5.03;LI 0.54 ;DME 0.868;LITFS 0.6;DME COLORLESSLIQ W/SWEET ODOR;FPT(C):EC 143(OC);PC 135(OC);DME 6(CC). HEALTH HAZ:OF LITFS

HARMFUL.

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

HCC:Z6

Boiling Pt:B.P. Text:SUPPLEMENT

Melt/Freeze Pt:=180.C, 356.F

M.P/F.P Text:180C LI

Decomp Temp:Decomp Text:NP Vapor Pres:SUPPLEMENT Vapor Density:SUPPLEMENT Spec Gravity:SUPPLEMENT

pH:NP

Viscosity:NP

Evaporation Rate & Reference: DME 4.99 (BUTYL ACETATE=1)

Solubility in Water:SUPPLEMENTAL

Appearance and Odor:PC/EC ODORLESS,COLORLESS LIQ;LI SOFT SILVERY

METAL;MNO2/CARBON BLK POWDER(SUPPL

Percent Volatiles

Corrosion Rate:NP
======== Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES NONE SPECIFIED BY MANUFACTURER. Stability Condition to Avoid:DO NOT HEAT, DISASSEMBLE OR RECHARGE. Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods:DISPOSE IAW APPROPRIATE REGULATIONS & W/RECOMMENDATIONS IN DURACELL TECHNICAL BULLETIN. OPEN CE LLS SHOULD

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

BE TREATED AS HAZARDOUS WASTE.

by Volume:NP

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