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BATTERY TECHNOLOGY COMPANY -- LITHIUM/MANGANESE DIOXIDE BATTERY, PN:PX28L (SEE SUPPLE) -- 6135-01-243-5797

Product ID:LITHIUM/MANGANESE DIOXIDE BATTERY, PN:PX28L (SEE SUPPLE)

MSDS Date:01/13/1992

FSC:6135

NIIN:01-243-5797

MSDS Number: BVHKB === Responsible Party ===

Company Name: BATTERY TECHNOLOGY COMPANY

Address:305 NEW HIGHWAY 64E

City:LEXINGTON

State:NC ZIP:2

7292-2037 Country:US

Info Phone Num:704-249-9101

Emergency Phone Num:203-796-4000/617-449-7600

CAGE:06121

=== Contractor Identification ===

Company Name: BATTERY TECHNOLOGY COMPANY (WAS MALLORY BATTERY CO

Box:305 CAGE:06121

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

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

Ingred Name:LITHIUM METAL

CAS

:7439-93-2

RTECS #:OJ5540000 Fraction by Wt: 0.5%

Other REC Limits: NONE RECOMMENDED

Ingred Name: MANGANESE DIOXIDE

CAS:1313-13-9

RTECS #:OP0350000 Fraction by Wt: 5.6%

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%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:3.5 MG/M3

ACGIH TLV:3.5 MG/M3: 9394

C Limits:NONE RECOMMENDED OSHA PEL:15 MPPCF; Z-3

ACGIH TLV:2 MG/M3 RDUST; 9394

Ingred Name:TEFLON Fraction by Wt: 0.2%

Other REC Limits: NONE RECOMMENDED

Ingred Name:PROPYLENE CARBONATE (PC)

CAS:108-32-7

RTECS #:FF9650000 Fraction by Wt: 0.25%

Other REC Limits: NONE RECOMMENDED

Ingred Name: ETHYLENE CARBONATE (EC)

Fraction by Wt: 0.25%

Other REC Limits: NONE RECOMMENDED

Ingred Name: DIMETHOXY ETHER (DME)

Fraction by Wt: 1.2%

Other REC Limits: NONE RECOMMENDED

Ingred Name:LITHIUM TRIFLUOROMETHANE

SULFONATE (LITFS) CAS:33454-82-9 Fraction by Wt: 0.1%

Other REC Limits: NONE RECOMMENDED

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

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

Health Hazards Acute and Chronic:CHEMICALS CONTAINED IN SEALED CAN.
RISK OF EXPO OCCURS ONLY IF BATTERY IS MECHANICALLY/ELECTRICALLY

ABUSED. MOST LIKELY RISK IS ACUTE EXPO WHEN CELL VENTS. PC MILDLY EYE/SKIN IRRIT. DME

BELIEVED TO BE SLIGHTLY TO MODERATELY TOXIC.

AVOID ELECTROLYTE & EXTRUDED LI W/SKIN/EYES. INHAL/INGEST OF LITFS MAY BE HARMFUL.

Explanation of Carcinogenicity:PER MSDS:NOT CARCINOGENIC PER NTP/IARC/OSHA.

Effects of Overexposure:IRRITATION OF SKIN OR EYES. LITHIUM CAN CAUSE THERMAL AND CHEMICAL BURNS UPON CONTACT W/THE SKIN. DME MAY BE A REPORDUCTIVE HAZARD.

Medical Cond Aggravated by Exposure: AN ACUTE EXPOSURE WILL NOT GENERALLY AGGRAVATE ANY MEDICAL CONDITION.

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======== First Aid Measures ================ First Aid: IN CASE OF SKIN CONTACT W/CONTENTS OF BATTERY, FLUSH IMMED W/WATER. FOR EYE CONTACT FLUSH W/COPIOUS AMTS OF WATER FOR 15MINS. DO NOT INHALE VENTED MATERIAL. IF IRRITATION PERSISTS GET MED HELP. Flash Point Method:OC Flash Point: EC 143, PC 135 Extinguishing Media:WATER. Fire Fighting Procedures: THE PREFERRED PROCEDURE IS TO RAPIDLY COOL THE **BATT** ERIES AND ADJACENT STRUCTURES WITH WATER. WHEN LARGE NO OF CELLS ARE INVOLVED IN FIRE, FIREFIGHTERS USE SCBA. Unusual Fire/Explosion Hazard: CELLS CAN VENT WHEN SUBJECTED TO EXCESSIVE HEAT. WHEN LARGE NUMBERS OF CELLS ARE INVOLVED IN A FIRE, FIRE FIGHTERS SHOLD USE SCBA. ======== Accidental Release Measures ============ Spill Release Procedures: PREFERRED RESPONSE IS TO LEAVE AREA & ALLOW BATTERIES TO COOL & VAPORS TO DISSIPATE. AVOID SKIN/EYE CONTACT OR INH AL OF VAPORS. REMOVE SPILLED LIQ W/ABSORBENT & INCINERATE. PREFERABLY, CLEAN-UP CREW S HOULD WEAR FULL-FACE RESP (PART/ORG VAPCARTRIDGE) Neutralizing Agent: NONE SPECIFIED BY MFG. ============= Handling and Storage ========================== Handling and Storage Precautions: AVOID MECHANICAL OR ELECTRICAL ABUSE. Other Precautions: BATTERIES MAY EXPLODE, PYROLIZE, OR VENT IF DISASSEMBLED, CRUSHED, RECHARGED OR EXPOSED TO FIRE OR HIGH TEMPERATURES. DO NOT SHORT OR INSTALL WITH INCORRECT POLARITY. ====== Exposure Controls/Personal Protection ======== Respiratory Protection: SCBA (FIRE); FULL-FACE RESP WITH PARTICULATE/ORGANIC CARGRIDGE (SPILL). Ventilation: IN CASE OF VENTING PROVIDE AS MUCH VENTILATION AS POSSIBLE. Protective Gloves:BUTYL GLOVES.

Eye Protection: SAFETY GLASSES.

Other Protective Equipment: NONE.

Supplemental Safety and Health

OTHER PN:DL 1/3N;DL 2/3A;123A;223A;245;323A & BATTERY COMPRISE OF DL 2/3A CELL. PHYS/CHEM:BP(C):EC 244,PC 2

42,MDE 85;VAP PRESS:EC .01,PC .03,DME 61;VAP DEN:EC 3.04,DME 3.1;SOLU:EC/PC MODERATELY,DME/LI TFS COMPLETELY;SPEC GRA:EC 1.322,PC 1.203,MNO2 5.03,LI .54,DME .868,LITFRS .6;DME NO COLOR LIQ W/SWEET ODOR.DME -6(CC).

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

HCC:Z6

Boiling Pt:B.P. Text:SUPPLEMENT

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

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

Vapor Pres:SUPPLEMENT Vapor Density:SUPPLEMENT Spec Gravity:SUPPLEMENT

Evaporation Rate & Reference: DME 4.99.

BUTYL ACETATE=1

Solubility in Water:SUPPLEMENT

Appearance and Odor:PC/EC NO ODOR/COLOR LIQ;LI SOFT,SILVERY

METAL; MNO2/CARBON BLK/GRAPH BLK PWD; SUP

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

Stability Indicator/Materials to Avoid:YES

NONE SPECIFIED BY MFG.

Stability Condition to Avoid: DO NOT HEAT, DISASSEMBLE, OR RECHARGE.

Hazardous Decomposition Products: NONE SPECIFIED BY MFG.

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

Waste Disposal Meth

ods:DISPOSE IN ACCORDANCE WITH APPROPRIATE

REGULATIONS. OPEN CELL SHOULD BE TREATED AS HAZARDOUS WASTE.

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