

DURACELL INC TECHNICAL SALES & MARKETING GROUP -- LITHIUM/MANGANESE DIOXIDE BATTERY -- 6140-01-351-1131

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

Product ID:LITHIUM/MANGANESE DIOXIDE BATTERY

MSDS Date:09/20/1991

FSC:6140

NIIN:01-351-1131

MSDS Number: BYDLX

=== Responsible Party ===

Company Name:DURACELL INC TECHNICAL SALES & MARKETING GROUP

Address:BERKSHIRE INDUSTRIAL PARK BLDG 9

City:BETHEL

State:CT

Z

IP:06801

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:VARTA BATTERIES INC

Address:300 EXECUTIVE BLVD

Box:City:ELMSFORD

State:NY

ZIP:10523-1202

Country:US

Phone:914-592-2500

CAGE:4M310

===== Composition/I

nformation on Ingredients =====

Ingred Name:LITHIUM HYDRIDE (SARA III)
CAS:7580-67-8
RTECS #:OJ6300000
Fraction by Wt: 0.5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.025 MG/M3
ACGIH TLV:0.025 MG/M3; 9293

Ingred Name:MANGANESE DIOXIDE
CAS:1313-13-9
RTECS #:OP0350000
Fraction by Wt: 5.6%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3 CEILING
ACGIH TLV:5 MG/M3 (AS MN DUST)

Ingred Name:CARBON BLACK
CAS:1333-86-4
RTECS #:FF5800000
Fraction by Wt: 0.4%
Other REC Limits:NONE RECOMMEN
DED
OSHA PEL:3.5 MG/M3
ACGIH TLV:3.5 MG/M3; 9293

Ingred Name:TEFLON (TETRAFLUORO ETHYLENE POLYMER)
CAS:116-14-3
RTECS #:KX4025000
Fraction by Wt: 0.2%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST

Ingred Name:PROPYLENE CARBONATE
CAS:108-32-7
RTECS #:FF9650000
Fraction by Wt: 0.5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:DIMETHOXY ETHER
Fraction by Wt: 1.2%
Other REC Limits:NONE RECOMMENDED

Ingred Name:LITHIUM TRIFLUOROMETHANE SULFONATE
Fraction by Wt

: 0.1%
Other REC Limits:NONE RECOMMENDED

Ingred Name:TEFLON
Fraction by Wt: 0%
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:THESE CHEMICALS ARE CONTAINED IN A
SEALED CAN. RISK OF EXPOSURE OCCURS ONLY IF THE BATTERY IS
MECHANICALLY OR ELECTRICALLY ABUSED. THE MOST LIKELY RISK IS ACUTE

EXPOSURE WHEN A CELL VENTS. THIS MAY CAUSE MILD IRRITATION TO EYES
AND SKIN UPON CONTACT. CONTACT OF ELECTROLYTE AND EXTRUDED LITHIUM
SHOULD BE AVOIDED.

Explanation of Carcinogenicity:NONE SPECIFIED BY MANUFACTURER.
Effects of Overexposure:IRRITATION OF SKIN OR EYES. LITHIUM CAN CAUSE
THERMAL AND CHEMICAL BURNS UPON CONTACT WITH THE SKIN. DME MAY BE A
REPRODUCTIVE HAZARD.

Medical Cond Aggravated by Exposure:AN ACUTE EXPOSURE WILL NOT
GENERALLY AGGRAVATE ANY MEDICAL CONDITIO
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===== First Aid Measures =====

First Aid:IN CASE OF SKIN CONTACT WITH CONTENTS OF BATTERY, FLUSH
IMMEDIATELY WITH WATER. FOR EYE CONTACT, FLUSH WITH COPIOUS AMOUNTS
OF WATER FOR 15 MINUTES. DO NOT INHALE VENTED MATERIAL. IF
IRRITATION PERSISTS, GET MEDICAL HELP.

===== Fire Fighting Measures =====

Extinguishing Media:WATER
Fire Fighting Procedures:THE PREFERRED PROCEDURE IS TO RAPIDLY COOL THE
BATTERIES AND ADJACENT STRUCTURES WITH WATER.
Unusual Fire/Explosion Hazard:CELLS CAN VENT WHEN SUBJECTED TO
EXCESSIVE HEAT. WHEN LARGE NUMBERS OF CELLS ARE INVOLVED IN A FIRE,
FIRE FIGHTERS SHOULD USE SCBA.

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

Spill Release Procedures:THE PREFERRED RESPONSE IS TO LEAVE THE AREA
AND ALLOW BATTERIES TO COOL AND VAPORS TO DISSIPATE. AVOID SKIN AND
EYE CONTACT OR INHALATION OF VAPORS. REMOVE SPILLED LIQUID WITH
ABSORBENT

AND INCINERATE . WEAR FULL-FACE RESPIRATOR.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage
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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
TEMPERATURE. DO NOT SHORT OR INSTALL WITH INCORRECT POLARITY.

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Exposure Controls/Personal Protection
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Respiratory Protection:SCBA (FIRE); FULL-FACE RESPIRATOR WITH
PARTICULATE/ORGANIC CARTRIDGE (SPILL).
Ventilation:IN CASE OF VENTING, PROVIDE AS MUCH VENTILATION AS
POSSIBLE.
Protective Gloves:BUTYL.
Eye Protection:SAFETY GLASSES.
Other Protective Equipment:NONE.
Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.
Supplemental Safety and Health
KEEP BATTERIES OUT OF REACH OF CHILDREN.

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Physical/Chemical Properties
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HCC:N1
Appearance and Odor:LITHIUM IS A SOLID, SILVERY METAL. MANGANESE
DIOXIDE/CARBON BLACK ARE BLACK POWDERS

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Stability and Reactivity Data
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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.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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Disposal Considerations
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Waste Disposal Method

s:DISPOSE IN ACCORDANCE WITH APPROPRIATE REGULATIONS AND WITH THE RECOMMENDATIONS OF DURACELL. OPEN CELLS SHOULD BE TREATED AS HAZARDOUS WASTE.

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