

GILLETTE MEDICAL EVALUATION LABORATORIES -- DURACELL LITHIUM MANGANESE DIOXIDE BATTERIES -- 6135-01-383-0151

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

Product ID:DURACELL LITHIUM MANGANESE DIOXIDE BATTERIES

MSDS Date:05/06/1998

FSC:6135

NIIN:01-383-0151

Status Code:A

MSDS Number: CJDLG

=== Responsible Party ===

Company Name:GILLETTE MEDICAL EVALUATION LABORATORIES

Address:401 PROFESSIONAL DRIVE

Box:UNKN

OW

City:GAITHERSBURG

State:MD

ZIP:20879

Country:US

Info Phone Num:301-590-9781

Emergency Phone Num:301-590-9781

CAGE:9X831

=== Contractor Identification ===

Company Name:ANTIQUUE ADDICT

Address:MAIN ST

Box:196

City:PARROTT

State:GA

ZIP:31777

Country:US

Phone:912-623-4400

CAGE:9X831

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

Ingred Name:MANGANESE DIOXIDE

CAS:1313-13-9

RTECS #:OP0350000

Minimum % Wt:65.

Maxumum % Wt:70.

OSHA PEL:C5 MG/M3

ACGIH TLV:5 MG/M3

Ingred Name:1,

2-DIMETHOXYETHANE

CAS:110-71-4

RTECS #:KI1451000

Minumum % Wt:10.

Maxumum % Wt:15.

Ingred Name:LITHIUM

CAS:7439-93-2

RTECS #:OJ5540000

Minumum % Wt:5.

Maxumum % Wt:10.

Ingred Name:PROPYLENE CARBONATE

CAS:108-32-7

RTECS #:FF9650000

Minumum % Wt:1.

Maxumum % Wt:5.

Ingred Name:ETHYLENE CARBONATE

CAS:96-49-1

RTECS #:FF9550000

Minumum % Wt:1.

Maxumum % Wt:5.

Ingred Name:CARBON BLACK

CAS:1333-86-4

RTECS #:FF5800000

Minumum % Wt:1.

Maxumum % Wt:5.

OSHA PEL:3.5 MG/M3

ACGIH TLV:3.5 MG/M3

Ingred Name

:LITHIUM TRIFLUOROMETHANESULFONATE

CAS:33454-82-9

Minumum % Wt:1.

Maxumum % Wt:5.

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

Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO

Health Hazards Acute and Chronic:THESE CHEMS & METALS ARE CONTAINED IN
SEALED CAN.FOR CONSUMER USE,ADEQUATE HAZ WARNINGS ARE INCLUDED ON
BOTH PKG & ON BATT.POTENTIAL FOR EXPO SHOULD NOT EXIST UNLESS BATT
LEAKS,IS EXPO TO HIGH TEMP OR MECHANICALLY,PHYSICALLY,ELECTRICALLY
ABUSE

D. INHAL: NOT ANTICIPATED. RESP (& EYE) IRRIT MAY OCCUR IF FUMES RELEASED DUE TO HEAT/ABUNDANCE OF LEAK BATT. INGEST: IRRIT TO INTERNAL/EXTERNAL MOUTH AREA. SKIN: CONT ACT-IRRIT MAY OCCUR FOLLOWING EXPO TO LEAK BATT. ABSORPT- NOT ANTICIPATED. EYE-IRRIT MAY OCUR FOLLOWING EXP TO LEAK BATT. OTHER: NA.

Effects of Overexposure: CHEMS/METALS IN SEALED CAN. FOR CONSUMER USE, ADEQUATE HAZ WARNINGS ARE INCLUDED ON BOTH PKG & BATT. POTENTIAL FOR EXPO SHOULD NOT EXIST UNLESS BATT LEAKS, IS EXPO TO HIGH TEMP OR IS MECHANICALLY, PHY, ELEC TR ABUSED. INHAL: RESP/EYE IRRIT. INGEST: IRRIT TO INTERNAL/EXTERNAL MOUTH AREA. SKIN: IRRIT. EYE: IRRIT.

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===== First Aid Measures =====

First Aid: EYE- NOT ANTICIPATED. BATT LEAKING, MATL CONTACT EYES FLUSH W/ COPIOUS AMTS OF CLEAR TEPID H2O FOR 30MINS. CONTACT DR @ ONCE. SKIN: NOT ANTICIPATED. BATT LEAKING IRRIGATE EXPO SKIN W/ COPIOUS AMTS OF CLEAR TEP ID H2O FOR @ LEAST 15MINS. IRRIT/INJURY/PAIN PERSISTS CONSULT DR. INHAL: NOT ANTICIPATED. BATT LEAKING CONTENTS MAY IRRIT RESP PASSAGES. REMOVE TO FRESH AIR. CONTACT DR IF IRRIT PERSISTS. INGEST: NOT ANTICIPATED. RINSE MOUTH/SURROUNDING AREA W/ CLEAR TEPID H2O FOR @ LEAST 15MINS. CONSULT DR IMMED FOR TREATMENT & TO RULE OUT INVOLVEMENT OF ESOPHAGUS & OTHER TISSUES. (SEE OTHER)

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

Flash Point Method: CC
Flash Point: =6.C, 42.8F
1,2-DIMETH=14%
Extinguishing Media: WATER
Fire Fighting Procedures: COOL FIRE-EXPOSED BATTERIES AND ADJACENT STRUCTURES WITH WATER SPRAY FROM A DISTANCE. USE SCBA AND FULL PROTECTIVE GEAR.
Unusual Fire/Explosion Hazard: BATTERIES MAY BURST AND RELEASE HAZARDOUS DECOMPOSITION PRODUCTS WHEN EXPOSED TO A FIRE SITUATION. SEE REACTIVITY SECTION.

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

Spill Release Procedures: NOTIFY SAFETY PERSONNEL OF LARGE SPILLS. EVACUATE AREA & ALLOW VAPORS TO DISSIPATE. INCREMENTI

LATION.AVOID EYE/SKIN CONTACT.DONT INHAL VAPORS.CLEANUP
PERSONNEL SHOULD WEAR APPROPRIATE PROTECTIVE GEAR.RE MOVE SPILLED
LIQUID W/ABSORBENT & CONTAIN FOR DISPOSAL.

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

Handling and Storage Precautions:STORE @RM TEMP.AVOID
MECHANICAL/ELECTRICAL ABUSE.DONT SHORT OR INSTALL INCORRECTLY. BATT
MAY EXPLO/PYROLIZE/VENT IF DISASSEMBLE,CRUSH,RECHARGE,EXPO TO HIGH
TEMPS.INSTALL BATT IAW EQPMT INSTRUCT.DONT M IX BATT SYS
T(LIKE
ALKALINE & ZINC CARBON)IN SAME EQPMT. REPLACE ALL BATT IN EQPMT.
Other Precautions:NORMAL CLEANUP:NOT APPLICABLE.KEEP BATTERIES AWAY
FROM SMALL CHILDREN.WARNING SIGNALS: NOT APPLICABLE.

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

Respiratory Protection:NONE UNDER NORMAL USE CONDITIONS.
Ventilation:GENERAL VENTILATION UNDER NORMAL USE CONDITIONS.
Protective Gloves:NONE UNDER NORMAL USE CONDITIONS.USE BUTYL GLOVES
WHEN HNDLG LEAKING BATT.
Eye Protection
:NONE UNDER NORMAL USE CONDITIONS.WEAR SAF GLASSES WHEN
HNDLG LEAKING BATT.
Supplemental Safety and Health

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

HCC:Z6
Evaporation Rate & Reference:N/A (ETHER=1)
Appearance and Odor:SMALL CYLINDRICAL BATTERIES. CONTENTS DARK IN
COLOR.

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

Stability Indicator/Materials to Avoid:YES
CONTENTS INCOMPATIBLE WITH STRONG OXIDIZING AGENTS.
Stability Condition to
Avoid:DO NOT HEAT, CRUSH, DISASSEMBLE, SHORT
CIRCUIT OR RECHARGE.
Hazardous Decomposition Products:THERMAL DEGRADATION MAY PRODUCE HAZ
FUMES OF MANGANESE AND LITHIUM;HYDROFLUORIC ACID; OXIDES OF CARBON
AND SULFUR AND OTHER TOXIC BY-PRODUCTS.

===== Toxicological Information =====

Toxicological Information:8HR TWA:MANGANESE DIOXIDE(AS
MN)-5MG/M3(CEILING)(OSHA);0.2MG/M3(ACGIH/DURACELL).1,2-DIMETHOXYETH
ANE 0.15PPM(DURACELL).CARBON BLACK 3.5MG/M3(O

SHA/ACGIH).LITHIUM

TRIFLUOROMETHANE SULFONATE 0.1MG/M3(3M R ECOMMENDATION).THESE LEVELS ARE NOT ANTICIPATED UNDER NORMAL CONSUMER USE CONDITIONS.

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Ecological Information
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Ecological:THESE BATTERIES PASS THE US EPAS TOXICITY CHARACTERISTIC LEACHING PROCEDURE AND THEREFORE MAY BE DISPOSED OF WITH NORMAL WASTE.ALL INGREDIENTS LISTED IN TSCA INVENTORY.

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Disposal Considerations
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Waste Disposal Me

thods:NO SPECIAL PRECAUTIONS ARE REQUIRED FOR SMALL QUANTITIES.LARGE QUANTITIES OF OPN BATT SHOULD BE TREATED AS HAZ WASTE.DISPOS OF IAW FED/STATE/LOC REGULATIONS.DONT INCINERATE, SINCE BATT MAY EXPLODE @EX CESSIVE TEMPERATURES.THESE BATT PASS US EPA TOXICITY CHARACTERISTIC LEACHING PROCEDURES & THEREFORE MAY BE DISPO OF W/NORMAL WASTE.

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MSDS Transport Information
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Transport Information:DOT HAZARD CLASS:NOT APPLICABLE. DOT SHIPPING NAME:NOT APPLICABLE.

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Regulatory Information
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Federal Regulatory Information:ALL INGREDIENTS LISTED IN TSCA INVENTORY.

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Other Information
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