

GILLETTE MEDICAL EVALUATION LABORATORIES -- DURACELL LITHIUM MANANESE DIOXIDE BATTERIES -- 6135-01-351-1131

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

Product ID:DURACELL LITHIUM MANANESE DIOXIDE BATTERIES

MSDS Date:03/23/1999

FSC:6135

NIIN:01-351-1131

Status Code:A

MSDS Number: CKRWW

=== Responsible Party ===

Company Name:GILLETTE MEDICAL EVALUATION LABORATORIES

Address:401 PROFESSIONAL DRIVE

City:GAITH

ERSBURG

State:MD

ZIP:20879

Country:US

Info Phone Num:301-590-9781

Emergency Phone Num:301-590-9781

Resp. Party Other MSDS Num.:GMEL # 1442

CAGE:TO361

=== Contractor Identification ===

Company Name:GILLETTE MEDICAL EVALUATION LABORATORIES

Address:401 PROFESSIONAL DRIVE

Box:City:GAITHERSBURG

State:MD

ZIP:20879

Country:US

Phone:301-590-9781

CAGE:TO361

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

Ingred Name:MANGANESE DIOXIDE

CAS:1313-13-9

RTECS #:OP0350000

Minumum % Wt:65.

Maxumum % Wt:75.
OSHA PEL:C5 MG/M3
ACGIH TLV:5 MG/M3

Ingred Name:1,2-DIMETHOXYETHANE
CAS:110-71-4
RTECS #:K11451000
Minumum % Wt:5.
Maxumum % Wt:10.
Other REC Limits:0.15 PPM-DURACELL

Ingred Name:LITHIUM
CAS:7439-93-2
RTECS #:OJ5540000
Minumum % Wt:1.
Maxumum % Wt:5.

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.
Other REC Limits:0.1 MG/M3 - 3M

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

LD50 LC50 Mixture:NONE PROVIDED BY MFR.
Health Hazards Acute and Chronic:INHALATION: NOT ANTICIPATED.
RESPIRATORY (& EYE) IRRITATION MAY OCCUR IF FUMES ARE RELEASED DUE
TO HEAT OR AN ABUNDANCE OF LEAKING B

BATTERIES. INGESTION:

IRRITATION TO THE INTERNAL/EXTERNAL MOUTH AREA MAY OCCUR FOLLOWING EXPOSURE TO A LEAKING BATTERY. SKIN CONTACT: IRRITATION MAY OCCUR FOLLOWING EXPOSURE TO A LEAKING BATTERY. SKIN ABSORPTION: NOT ANTICIPATED. EYE: IRRITATION MAY OCCUR FOLLOWING EXPOSURE TO A LEAKING BATTERY.

Explanation of Carcinogenicity:NONE PROVIDED BY MFR.

Effects of Overexposure:CHEMICALS & METALS ARE CONTAINED IN SEALED CAN.

FOR CONSUMER USE, ADEQUATE HAZARD WARNINGS ARE INCLUDED ON BOTH

PACKAGE & BATTERY. POTENTIAL FOR EXPOSURE SHOULD NOT EXIST UNLESS THE BATTERY LEAKS, IS EXPOSED TO HIGH TEMPERATURE OR IS MECHANICALLY, PHYSICALLY, OR ELECTRICALLY ABUSED.

Medical Cond Aggravated by Exposure:NONE PROVIDED BY MFR.

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

First Aid:EYE: IF LEAKING & MATERIAL CONTACTS EYES, FLUSH WITH LARGE AMOUNTS OF CLEAR, TEPID WATER FOR 30 MINS. CONTACT PHYSICIAN AT ONCE. SKIN: IRRIGATE EXPOSED SKIN WITH LARGE AMOUNTS OF TEPID WATER FOR AT LEAST 15 MINS. IF IRRITATION, INJURY OR PAIN PERSISTS, CONSULT PHYSICIAN. INHALATION: IF LEAKING, CONTENTS MAY BE IRRITATING TO RESPIRATORY PASSAGES. REMOVE TO FRESH AIR. CONTACT PHYSICIAN IF IRRITATION PERSISTS. INGESTION. RINSE MOUTH & SURROUNDING AREA WITH CLEAR, TEPID WATER FOR AT LEAST 15 MINS. CONSULT PHYSICIAN IMMEDIATELY FOR TREATMENT TO RULE OUT INVOLVEMENT OF ESOPHAGUS & OTHER TISSUES.

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

Lower Limits:NOT AVAILABL

Upper Limits:NOT AVAILABL

Extinguishing Media:AS FOR SURROUNDING AREA. DRY CHEMICAL, ALCOHOL FOAM, WATER OR CARBON DIOXIDE. FOR INCIPIENT FIRES, CARBON DIOXIDE EXTINGUISHERS ARE MORE EFFECTIVE THAN WATER.

Fire Fighting Procedures:COOL FIRE-EXPOSED BATTERIES & ADJACENT STRUCTURES WITH WATER SPARY FROM A DISTANCE. USE SELF CONTAINED BREATHING APPARATUS & FULL PROTECTIVE GEAR.

Unusual Fire/Explosion Hazard:BATTERIES

MAY BURST & RELEASE HAZARDOUS
DECOMPOSITION PRODUCTS WHEN EXPOSED TO A FIRE SITUATION.

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

Spill Release Procedures:NOTIFY SAFETY PERSONNEL OF LARGE SPILLS.
EVACUATE THE AREA & ALLOW VAPORS TO DISSIPATE. INCREASE
VENTILATION. AVOID EYE OR SKIN CONTACT. DO NOT INHALE VAPORS.
CLEAN-UP PERSONNEL SHOULD WEAR APPROPRIATE PROTECTIVE GEAR. REMOVE
SPILLED LIQUID WITH ABSORBENT & CONTAIN FOR DISPOSAL.

Neutralizing Agent:NONE PROVIDED BY MFR.

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

Handling and Storage Precautions:STORE AT ROOM TEMPERATURE. . AVOID
MECHANICAL OR ELECTRICAL ABUSE. DO NOT SHORT OR INSTALL
INCORRECTLY. BATTERIES MAY EXPLODE, PYROLYSE OR VENT IF
DISASSEMBLED, CRUSHED, RECHARGED OR EXPOSED TO HIGH TEMPERATURE.
INSTALL BATTERIES IN ACCORDANCE WITH EQUIPMENT INSTRUCTIONS.

Other Precautions:REPLACE ALL BATTERIES IN EQUIPMENT AT THE SAME TIME.
DO NOT
CARRY BATTERIES LOOSE IN POCKET OR BAG. KEEP BATTERIES AWAY
FROM SMALL CHILDREN.

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

Respiratory Protection:NONE UNDER NORMAL USE CONDITIONS
Ventilation:GENERAL VENTILATION UNDER NORMAL USE CONDITIONS.
Protective Gloves:BUTYL GLOVES WHEN HANDLING LEAKING BATTERIES
Eye Protection:SAFETY GLASSES WHEN HANDLING LEAKING BATTERIES
Other Protective Equipment:NONE PROVIDED BY MFR.
Work Hygienic Practices:NONE PROVIDED BY MFR.
Supplemental Safety and Health

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

HCC:Z6
Decomp Temp:Decomp Text:NONE PROVIDED BY MFR.
Appearance and Odor:SMALL CYLINDRICAL BATTERIES. CONTENTS DARK IN COLOR
Corrosion Rate:NONE PROVIDED BY MFR

===== 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 HAZARDOUS FUMES OF MANGANESE & LITHIUM; HYDROFLUORIC ACID, OXIDES OF CARBON & SULFUR & OTHER TOXIC BY-PRODUCTS

Conditions to Avoid Polymerization:WILL NOT OCCUR

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

Toxicological Information:8 HOUR TWA'S SPECIFIED IN INGREDIENTS SECTION ARE NOT ANTICIPATED UNDER NORMAL CONSUMER USE CONDITIONS.

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===== Ecological Information ==
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Ecological:NOT PROVIDED

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

Waste Disposal Methods:NO SPECIAL PRECAUTIONS ARE REQUIRED FOR SMALL QUANTITIES. LARGE QUANTITIES OF OPEN BATTERIES SHOULD BE TREATED AS HAZARDOUS WASTE. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS. DO NOT INCINERATE, SINCE BATTERIES MAY EXPLODE AT EXCESSIVE TEMPERTURES.

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===== MSDS Transport Information =====

Transport Information:PER MSDS BATTERY IS NOT REGULATED UNDER U.S. DOT OR INTERNATIONAL REGULATIONS.

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===== Regulatory Information =====

SARA Title III Information:NOT APPLICABLE AS ITEM IS AN ARTICLE.
Federal Regulatory Information:BATTERY PASSES THE U.S. EPA'S TOXICITY CHARACTERISTIC LEACHING PROCEDURE & THEREFORE MAY BE DISPOSED OF AS NORMAL WASTE.
State Regulatory Information:NOT PROVIDED

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