

DURACELL INC TECHNICAL SALES & MARKETING GROUP -- ALKALINE MANGANESE DIOXIDE CELL
(MN9100 N) -- 6135-01-031-0862

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

Product ID:ALKALINE MANGANESE DIOXIDE CELL (MN9100 N)

MSDS Date:09/24/1991

FSC:6135

NIIN:01-031-0862

MSDS Number: BPHQH

=== Responsible Party ===

Company Name:DURACELL INC TECHNICAL SALES & MARKETING GROUP

Address:BERKSHIRE INDUSTRIAL PARK BLDG 9

City

:BETHEL

State:CT

ZIP:06801

Country:US

Info Phone Num:203-796-4654

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

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

Ingred Name:POTASSIUM HYDROXIDE

CAS:1310-58-3

RTECS #:TT2100000

Fraction by Wt: 8%

Other REC Limits:

NONE SPECIFIED

OSHA PEL:C, 2 MG/M3

ACGIH TLV:C 2 MG/M3; 9091

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:MERCURY

CAS:7439-97-6

RTECS #:OV4550000

Fraction by Wt: 0.025%

Other REC Limits:NONE SPECIFIED

OSHA PEL:S, C, 0.1 MG/M3

ACGIH TLV:S, 0.05 MG/M3; 9091

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:ZINC

CAS:7440-66-6

RTECS #:ZG8600000

Fraction by Wt: 15%

Fraction by Wt: 37%
Other REC Limits:NONE SPECIFIED
OSHA PEL:5 MG MN/M3 CEILING
ACGIH TLV:5 MG MN/M3

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

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EXPOSURE TO
MERCURY-ACUTE-SKIN:IRRITATION, ANURIA. EYE:IRRITATION, CORNEAL
INJURY OR BURNS. INGESTION:IMMEDIATE NECROSIS IN MOUTH, THROAT,
ESOPHAGUS & STOMACH. DEATH MAY OCCURE
. INHALATION:DYSPNEA, COUGH,
FEVER, NAUSEA & VOMITING, DIARRHEA, STOMATITIS, SALIVATION &
METALLIC TASTE. CHRONIC: CNS DISTURBANCES.
Explanation of Carcinogenicity:MERCURY, ZINC AND MANGANESE ARE NOT
LISTED BY IARC, NTP, OR OSHA AS CARCINOGENS.
Effects of Overexposure:TREMORS, CONVULSIONS & OTHER CNS DISTURBANCES,
PNEUMONITIS, CHEST PAINS, DYSPNEA, COUGHING, STOMATITIS, GINGIVITIS
AND LOOSENING OF TEETH, SALIVATION, LOSS OF MEMORY, METALLIC TASTE,
DIZZINESS, CLUMSINESS,
SLURRED SPEECH, DIARRHEA, PAIN & NUMBNESS
IN EXTREMITIES, NEPHRITIS, ANXIETY, HEADACHE, WEIGHT LOSS, AND
INSOMNIA.
Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF
ALCOHOLISM, CHRONIC KIDNEY DISEASE OR KNOWN ALLERGY TO MERCURY MAY
BE AT INCREASED RISK FROM EXPOSURE TO MERCURY IF THE BATTERY IS
RUPTURED.

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

First Aid:IF EXPOSED TO RUPTURED BATTERY-INHALATION: REMOVE TO FRESH
AIR. IF NOT BREATHING GIVE CPR/OXYGEN. GET MEDICAL ATTENTION.
EYE:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. GET
MEDICAL ATTENTION. SKIN:WASH SKIN WITH PLENTY OF SOAP &WATER.
INGESTION: GET IMMEDIATE MEDICAL ATTENTION.

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

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY
CHEMICAL.
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A
FULL FACED SELF CONTAINED BREATHING APPARATUS. EV

ACUATE AREA. COOL

FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS OF MERCURY. CELL MAY EXPLODE IN FIRE.

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

Spill Release Procedures:PICK UP ALL BATTERIES. FOR A SMALL SPILL OF A RUPTURED BATTERY: COLLECT THE DUST WITH A VACUUM CLEANER AND SAVE FOR DISPOSAL. WASH THE AREA.

Neutralizing Agent:NONE

=====

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM HEAT. STACK CARTONS NO MORE THAN 4 LAYERS HIGH ON A PALLET AND NO MORE THAN 3 PALLETS HIGH.

Other Precautions:DO NOT SEAL BATTERIES IN AIR TIGHT OR WATERTIGHT CONTAINERS OR COMPARTMENTS. DO NOT RUPTURE OR THROW BATTERIES IN FIRE. DO NOT RECHARGE BATTERIES.

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

Respirator

y Protection:NORMALLY NOT REQUIRED. WEAR MASK WHEN HANDLING DUST FROM RUPTURED BATTERY.

Ventilation:GENERAL/LOCAL EXHAUST VENTILATION WHEN HANDLING RUPTURED BATTERIES.

Protective Gloves:RUBBER, IF HANDLING RUPTURED BATTERY.

Eye Protection:NONE

Other Protective Equipment:NONE REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

THIS PRODUCT IS AN "ARTICLE". THERE ARE NO HEALTH HAZARDS IN HANDLING BATTE

RIES UNLESS THE BTTERIES ARE RUPTURED. WHEH HANDLING RUPTURED BATTERY DO NOT GET ON SKIN, IN EYES OR ON CLOTHING. DO NOT BREA THE VAPORS.

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

HCC:N1

Appearance and Odor:CYLINDRICAL BATTERY

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS AND BASES

Stability Condition to Avoid:HIGH TEMPERATURES

Hazardous Decomposition Products:THERMAL DECOMPOSITIO

N PRODUCTS INCLUDE

TOXIC MERCURY VAPORS, MOLTEN AND BURNING FUMES.

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

Waste Disposal Methods:DO NOT INCINERATE, BURY IN LANDFILL IN
ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATION.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warran

ts this information to be accurate and

disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.