

DURACELL INC TECHNICAL SALES & MARKETING GROUP -- ALKALINE MANGANESE DIOXIDE
CELL,GS-21 -- 6140-01-162-0943

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

Product ID:ALKALINE MANGANESE DIOXIDE CELL,GS-21

MSDS Date:09/24/1992

FSC:6140

NIIN:01-162-0943

MSDS Number: CGMXP

=== Responsible Party ===

Company Name:DURACELL INC TECHNICAL SALES & MARKETING GROUP

Address:BERKSHIRE INDUSTRIAL PARK BLDG 9

City:BETHEL

Sta

te:CT

ZIP:06801

Country:US

Info Phone Num:800-243-9540/FAX 203-796-4518

Emergency Phone Num:203-796-4654/4000/617-449-7600

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:EMERGENCY BEACON CORP (914-235-9400)

Address:15 RIVER ST

Box:UNKNOWN

City:NEW ROCHELLE

State:NY

ZIP:10801-4354

Country:US

Phone:914-235-9400

CAGE:52

727

Company Name:GLATZER INDUSTRIES CORP

Address:15 RIVER ST

Box:City:NEW ROCHELLE

State:NY

ZIP:10801-4351

Country:US

Phone:914-576-2700

Contract Num:SP0430-01-C-1460

CAGE:6P122

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

Ingred Name:POTASSIUM HYDROXIDE (CERCLA)

CAS:1310-58-3

RTECS #:TT2100000

Fraction by Wt: 8%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:C 2 MG/M3

ACGIH TLV:C 2 MG/M3; 9596

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:ZINC (SARA 313) (CERCLA)

CAS:7440-66-6

RTECS #:ZG8600000

Fraction by Wt: 15%

Other REC Limits:NONE RECOMMENDED

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:MANGANESE DIOXIDE

CAS:1313-13-9

RTECS #:OP0350000

Fraction by Wt: 37%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG MN/M3 CEILING

ACGIH TLV:5 MG MN/M3

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

LD50 LC50 Mixture:NOT RELEVANT

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:N

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Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, RESPIRATORY, GI TRACTS. ACUTE- BATTERY IS HERMETICALLY SEALED. CONTENTS OF AN OPEN BATTERY CAN CAUSE IRRITATION OF RESPIRATORY TRACT, SEVERE EYE IRRITATION & BURNS, SKIN IRRI TATION, BURNS. INGESTION CAN BE HARMFUL.CAUSES BURNS. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:NONE IF BATTERY IS NOT BROKEN OR IN FIRE.

OTHERWISE: SEVERE IRRITATION, CHEMICAL BURNS, PAIN

Medical Cond Aggrav

ated by Exposure:AN ACUTE EXPOSURE WILL NOT

GENERALLY AGGRAVATE ANY MEDICAL CONDITION.

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

First Aid:IF INGESTED, DO NOT INDUCE VOMITING NOR GIVE FOOD/DRINK. SEEK MEDICAL ATTENTION IMMEDIATELY. CALL NATIONAL BATTERY INGESTION HOTLINE FOR ADVICE (202-625-3333) COLLECT DAY/NIGHT. IF INHALED, PROVIDE FR ESH AIR & CALL A DOCTOR. IF SKIN IS CONTAMINATED, REMOVE CLOTHING & WASH SKIN WITH SOAP & WATER. IF IRRITATION PERSISTS, SEE DOCTOR. FOR EYE, FLUSH IMMEDIATELY WITH WATER FOR 15 MINUTES. SEE DOCTOR.

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

Flash Point:NOT RELEVANT

Lower Limits:NOT RELEVANT

Upper Limits:NOT RELEVANT

Extinguishing Media:IN BULK STORAGE AREAS, USE FOAM OR DRY CHEMICAL. WATER SPRAY MAY CAUSE ELECTRCICAL SHORTS.

Fire Fighting Procedures:AS WITH ANY FIRE, WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/E

xplosion Hazard:LIKE ANY SEALED CONTAINER, BATTERY CELLS MAY RUPTURE RESULTING IN RELEASE OF CORROSIVE MATERIAL AND HAZARDOUS VAPORS.

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

Spill Release Procedures:IF BROKEN, COLLECT AND TRANSFER TO PROPER CONTAINER FOR DISPOSAL. WEAR GLOVES.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN COOL, VENTILATED AREA. ELEVATED

TEMPERATURES CAN RESULT IN SHORTENED BATTERY LIFE. KEEP
OUT OF REACH OF SMALL CHILDREN.
Other Precautions:DO NOT CARRY BATTERIES LOOSE IN POCKET, PURSE/BAG. DO
NOT MIX BATTERY SYSTEMS (MERCURY ALKALINE/ZINC CARBON) IN SAME
EQUIPMENT. DO NOT OPEN BATTERY, DISPOSE IN FIRE, RECHARGE, PUT IN
BACKWARDS. MAY EX PLODE OR LEAK AND CAUSE PERSONAL INJURY.

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

Respiratory Protection:NOT NECESSARY UNDER NORMAL CONDITIONS. WEAR
A
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WHEN CELLS ARE
INVOLVED IN A FIRE.

Ventilation:SUBSEQUENT TO A FIRE, PROVIDE AS MUCH AS VENTILATION AS
POSSIBLE.

Protective Gloves:NEOPRENE/NITRILE IF HANDLING LEAKERS

Eye Protection:SAFETY GLASSES+SIDE SHIELDS FOR LEAKERS

Other Protective Equipment:EYE BATH, WASHING FACILITIES

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

Supplemental Safety and Health

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

HCC:Z7

NRC/State Lic Num:NOT RELEVANT

Decomp Temp:Decomp Text:NOT KNOWN

Spec Gravity:NOT RELEVANT

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:NOT RELEVANT

Appearance and Odor:BATTERY - ODORLESS

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

Stability Indicator/Materials to Avoid:YES
NOT KNOWN

Stability Condition to Avoid:EXCESSIVE HEAT, ELECTRICAL SHORTING,
CRUSH, PUNCTURE, DISASSEMB

LE, RECHARGE

Hazardous Decomposition Products:HAZARDOUS VAPORS AND CAUSTIC POTASSIUM
HYDROXIDE

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

Waste Disposal Methods:DISPOSE IN LANDFILL IN ACCORDANCE WITH ALL
LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT INCINERATE. RECYCLING
IS RECOMMENDED.

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