

BATTERY ASSEMBLERS INC -- ALKALINE MANAGANESE DIOXIDE CELLS & BATTERIES --
6135-01-167-7604

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

Product ID:ALKALINE MANAGANESE DIOXIDE CELLS & BATTERIES

MSDS Date:07/10/1992

FSC:6135

NIIN:01-167-7604

MSDS Number: BXYXP

=== Responsible Party ===

Company Name:BATTERY ASSEMBLERS INC

Address:211-4 KNICKERBOCKER AVE

City:BOHEMIA

State:NY

ZIP:11716

Country:US

Info Phone N

um:516-567-8855

Emergency Phone Num:516-567-8855

CAGE:0B0Y5

=== Contractor Identification ===

Company Name:BATTERY ASSEMBLERS INC

Address:211-4 KNICKERBOCKER AVE

Box:City:BOHEMIA

State:NY

ZIP:11716

Country:US

Phone:407-323-3390/EM:516-567-8855/8278

CAGE:0B0Y5

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

Ingred Name:POTASSIUM HYDROXIDE (SARA III)

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; 91

92

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 SPECIFIED

OSHA PEL:5 MG MN/M3 CEILING

ACGIH TLV:5 MG MN/M3

Ingred Name:ZINC (SARA III)

CAS:7440-66-6

RTECS #:ZG8600000

Fraction by Wt: 15%

Other REC Limits:NONE SPECIFIED

OSHA PEL:10 MG ZNO/M3

ACGIH TLV:10 MG ZNO/M3; 9192

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:MERCURY (SARA III)

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; 9192

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

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===== 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 A

CUTE

EXPOSURE WHEN A CELL LEAKS. POTASSIUM HY DROXIDE (KOH) IS CAUSTIC AND SKIN CONTACT CAN CAUSE BURNS. EYE CONTACT WITH KOH MAY CAUSE PERMANENT INJURY.

Explanation of Carcinogenicity:NONE SPECIFIED BY MANUFACTURER.

Effects of Overexposure:SKIN AND EYE CONTACT WITH KOH MAY CAUSE CHEMICAL BURNS. AT ELEVATED TEMPERATURE, MERCURY VAPOR MAY BE GENERATED WHICH SHOULD NOT BE INHALED.

Medical Cond Aggravated by Exposure:AN ACUTE EXPOSURE WILL NOT GENERALLY AGGRAVATE ANY MEDICAL CONDITION.

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First Aid Measures
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First Aid:IF LEAKAGE FROM A CELL CONTACTS THE SKIN, FLUSH IMMEDIATELY WITH WATER. FOR EYE CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR 15 MINUTES AND SEE A PHYSICIAN AT ONCE. IF VAPOR IS INHALED, REMOVE TO FRESH AIR.

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Fire Fighting Measures
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Extinguishing Media:NONE SPECIFIED BY MANUFACTURER.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE SELF-CONTAINED

BREATHING APPARATUS WHEN A LARGE NUMBER OF CELLS ARE INVOLVED IN A FIRE.

Unusual Fire/Explosion Hazard:CELLS MAY RELEASE TOXIC MERCURY VAPORS WHEN THE INTEGRITY OF THE CASE IS BROKEN.

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Accidental Release Measures
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Spill Release Procedures:AVOID EYE AND SKIN CONTACT. DO NOT INHALE VAPORS.

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.

USE NEOPRENE, RUBBER, OR LATEX GLOVES IN HANDLING LEAKERS. STORE AT ROOM TEMPERATURE.

Other Precautions:DO NOT ATTEMPT TO RECHARGE. INSTALL CELLS IN ACCORDANCE WITH EQUIPMENT INSTRUCTIONS. DO NOT DISPOSE IN FIRE. REPLACE ALL BATTERIES IN EQUIPMENT AT THE SAME TIME. DO NOT MIX BATTERY SYSTEMS SUCH AS ALK ALINE & ZINC/CARBON IS SAME EQUIPMENT.

=====
Exposure Controls/Personal Protection
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Respiratory Protection:

SELF CONTAINED BREATHING APPARATUS WHEN LARGE NUMBERS OF CELLS ARE INVOLVED IN A FIRE.

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

Protective Gloves:NEOPRENE,RUBBER,LATEX FOR LEAKERS

Eye Protection:SAFETY GLASSES FOR LEAKERS

Other Protective Equipment:NONE REPORTED BY MANUFACTURER

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

DO NOT CARRY BATTERIES LOOSE IN POCKET OR BAG.

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

HCC:N1

Boiling Pt:B.P. Text:2408F,1320C

Melt/Freeze Pt:M.P/F.P Text:680F,360C

Solubility in Water:50 (KOH)

Appearance and Odor:CLEAR LIQUID (KOH)

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

Stability Indicator/Materials to Avoid:YES
NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:DO NOT HEAT, DISASSEMBLE, OR RECHARGE

Hazardous Decomposition Products:WHEN HEATED, CELLS MAY EMIT HAZARDOUS VAPORS OF POTASSIUM HYDROXIDE AND MERCURY.

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

Waste Disposal Methods:IN SMALL QUANTITIES, CELLS MAY BE DISPOSED OF WITH HOUSEHOLD TRASH. OPEN CELLS IN LARGE QUANTITIES SHOULD BE TREATED AS A HAZARDOUS WASTE. DO NOT INCINERATE SINCE CELLS MAY EXPLODE AT EXCESSIVE TEMPERATURES. DISPOSE I/A/W APPLICABLE REGULATIONS.

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