

BATTERY ASSEMBLERS INC -- ALKALINE MANGANESE DIOXIDE CELL BATTERY --
6135-00-125-5256

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

Product ID:ALKALINE MANGANESE DIOXIDE CELL BATTERY

MSDS Date:08/13/1996

FSC:6135

NIIN:00-125-5256

MSDS Number: CDXJM

=== Responsible Party ===

Company Name:BATTERY ASSEMBLERS INC

Address:211-4 KNICKERBOCKER AVE

City:BOHEMIA

State:NY

ZIP:11716

Country:US

Info Phone Num:516-567-8855/FAX -8278

Emergency Phone Num:516-567-8855

CAGE:0B0Y5

=== Con

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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 RECOMMENDED

OSHA PEL:C 2 MG/M3

ACGIH TLV:C 2 MG/M3; 9394

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:MANGANES

E 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

Ingred Name:ZINC (SARA III)
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

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

LD50 LC50 Mixture:PRODUCT'S LD50 (ORAL RAT) WAS NOT STATED
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of
Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:CHEMICALS ARE CONTAINED IN A SEALED
CAN. RISK OF EXPOSURE OCCURS ONLY IF THE BATTERY IS MECHANICALLY OR
ELECTRICALLY ABUSED. MOST LIKELY RISK IS ACUTE EXOSURE WHEN A CELL
LEAKS. KOH IS CAUSTIC & SKIN CONTACT CAN CAUSE BURNS. EYE CONTACT
MAY CAUSE PERMANENT DAMAGE.
Explanation of Carcinogenicity:MFR GAVE THE ABOVE LISTINGS ON THE MSDS
BUT NO OTHER COMMENTS ABOUT CARCINOGENICITY WERE RECORDED.
Effects o
f Overexposure:SKIN & EYE CONTACT W/KOH MAY CAUSE CHEMCIAL
BURNS.
Medical Cond Aggravated by Exposure:MFR GAVE NO INFORMATION OF MSDS.

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

First Aid:IF LEAKAGE FROM A CELL CONTACTS SKIN, FLUSH IMMEDIATELY
W/WATER. FOR EYE CONTACT, FLUSH W/COPIOUS AMOUNTS OF WATER FOR 15
MIN & GET IMMEDIATE MEDICAL ATTENTION. IF VAPOR IS INHALED, REMOVE
TO FRESH AI R.

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

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Flash Point:N/A.
Lower Limits:N/A.
Upper Limits:N/A.
Extinguishing Media:MFR GAVE NO INFORMATION OF MSDS.
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:NONE

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

Spill Release Procedures:AVOID SKIN AND EYE CONTACT. DO NOT INHALE VAPORS.
Neutralizing Agent:MFR GAVE NO INFORMATION OF MSDS.

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

Handling and Storage Precautions:AVOID MECHANICAL OR ELECTRICAL ABUSE. USE NEOPRENE, RUBBER OR LATEX-NITRILE GLOVES TO HANDLE 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 IN SAME EQUIPM ENT.

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

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 OR LATEX-NITRILE
Eye Protection:SAFETY GLASSES OR GOGGLES
Other Protective Equipment:MFR GAVE NO INFORMATION OF MSDS.
Work Hygienic Practices:MFR GAVE NO INFORMATION OF MSDS.
Supplemental Safety and

Health
DO NOT CARRY BATTERIES LOOSE IN POCKET OR BAG.

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

HCC:N1
NRC/State Lic Num:NONE
Vapor Pres:N/A.
Vapor Density:N/A.
Evaporation Rate & Reference:N/A.
Solubility in Water:NEGLIGIBLE
Appearance and Odor:BATTERY CELL

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

Stability Indicator/Materials to Avoid:YES
MFR GAVE NO INFORMATION OF MSDS.
Stability Condition to Avoid:DO NOT HEAT, DISASSEMBLE, OR RECHARGE.
Hazardous Decomposition Products:WHEN HEATED, CELLS MAY EMIT HAZARDOUS VAPORS OF HG AND CAUSTIC KOH.

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

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

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