

ALEXANDER MFG CO. -- MERCURIC OXIDE CELL; P/N BA-1093/U -- 6135-00-808-5093

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

Product ID:MERCURIC OXIDE CELL; P/N BA-1093/U

MSDS Date:09/05/1991

FSC:6135

NIIN:00-808-5093

MSDS Number: CHHPL

=== Responsible Party ===

Company Name:ALEXANDER MFG CO.

Address:1511 S. GARFIELD PL

Box:1508

City:MASON CITY

State:IA

ZIP:50401-5662

Country:US

Info Phone Num:515-423-8955/800

-247-1821

Emergency Phone Num:515-423-1161/800-247-1821

CAGE:56469

=== Contractor Identification ===

Company Name:ALEXANDER TECHNOLOGIES INC

Address:1511 S. GARFIELD PL

Box:1508

City:MASON CITY

State:IA

ZIP:50401

Country:US

Phone:515-423-1161/8955

CAGE:56469

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
=====

Ingr

ed Name:POTASSIUM HYDROXIDE (CERCLA)
CAS:1310-58-3
RTECS #:TT2100000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 2 MG/M3
ACGIH TLV:C 2 MG/M3; 9495
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:MERCURIC OXIDE (SARA 302/313) (CERCLA)
CAS:21908-53-2
RTECS #:OW8750000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1 MG (HG)/M3; Z-2
ACGIH TLV:S,0.025 MG(HG)/M3;95

Ingred Name:MERCURY (SARA 313) (CERCLA)
CAS:7439-97-6
RTECS #:OV4550000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C, 0.1 MG/M3; Z
-2
ACGIH TLV:S,0.025 MG/M3; A4;95
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ZINC (SARA 313) (CERCLA)
CAS:7440-66-6
RTECS #:ZG8600000
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
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG MN/M3 CEILING
ACGIH TLV:5 MG MN/M3

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

LD50 LC50 Mixture:NOT RELEVANT
Routes of Entry: Inhalation:NO Skin:NO

Ingestion:NO

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

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 IRRITATION, BURNS. INGESTION CAN BE HARMFUL. CAUSES BURNS. AT ELEVATED TEMPERATURES, MERCURY INTOXICATION. 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 Condition Aggravated 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 FRESH 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

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

Fire Fighting Procedures:AS WITH ANY FIRE, WEAR PROTECTIVE CLOTHING AND

NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:LIKE ANY SEALED CONTAINER, BATTERY CELLS MAY RUPTURE RESULTING IN RELEASE OF CORROSIVE MATERIAL AND TOXIC MERCURY VAPOR.

=====
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, WELL 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:NOT NECESSARY UNDER NORMAL CONDITIONS.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND

RECOMMENDED PROCEDURES.

Supplemental Safety and Health

PERCENTAGES OF INGREDIENTS VARY ACCORDING TO TYPE OF CELL USED WITHIN
THE BATTERY.

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

HCC:N1

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, DISASSEMBLE, RECHARGE

Hazardous Decomposition Products:HAZARDOUS MERCURY 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.

Disclaimer (provided w

ith 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, warrants 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.