

ALEXANDER MFG CO. -- M 2477 -- 6135-00-930-0810

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

Product ID:M 2477
MSDS Date:02/01/1992
FSC:6135
NIIN:00-930-0810
MSDS Number: BNTMY
=== 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
Emergency Phone Num:515-423-1161
CAGE:56469
=== Contractor I
dentification ===
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

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

Ingred Name:MANGANESE DIOXIDE
CAS:1313-13-9
RTECS #:OP0350000
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
Other REC Limits:NONE SPECIFIED
OSHA PEL:10 MG Z

NO/M3
ACGIH TLV:10 MG ZNO/M3; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:MERCURIC OXIDE (SARA III), 125 GM/BATTERY
CAS:21908-53-2
RTECS #:OW8750000
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.1 MG HG/M3;SKIN;C
ACGIH TLV:0.1 MG HG/M3; 9192

Ingred Name:POTASSIUM HYDROXIDE (SARA III)
CAS:1310-58-3
RTECS #:TT2100000
Other REC Limits:NONE SPECIFIED
OSHA PEL:C, 2 MG/M3
ACGIH TLV:C 2 MG/M3; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

===== Hazards Identification
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Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE AND CHRONIC- NOT LIKELY UNDER
PROPER USE. IF BATTERY RUPTURED:ORALLY CAN CAUSE SERIOUS GI TRACT
BURNS. IF INHALED, CAN CAUSE RESPIRATORY TRACT IRRITATION. EYE
CONTACT CAN CAUSE SEVERE IRRITATION AND BURNS. SKIN CONTACT CAN
CAUSE IRRITATION.
Effects of Overexposure:NONE. IF BATTERY RUPTURED:ORALLY CAN CAUSE
SE
RIOUS GI TRACT BURNS. IF INHALED, CAN CAUSE RESPIRATORY TRACT
IRRITATION. EYE CONTACT CAN CAUSE SEVERE IRRITATION AND BURNS. SKIN
CONTACT CAN CAUSE IRRITAT ION.
Medical Cond Aggravated by Exposure:NONE

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

First Aid:NONE. IF BATTERY RUPTURED, GET MEDICAL ATTENTION IF SYMPTOMS
PERSIST. EYES:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES, HOLDING
EYELIDS OPEN. SKIN:WASH WITH SOAP AND WATER. INHALED:PROVIDE FRESH
AI

R. INGESTED:DO NOT INDUCE VOMITING NOR GIVE FOOD OR DRINK. SEEK MEDICAL HELP IMMEDIATELY.

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

Extinguishing Media:DRY CHEMICAL

Fire Fighting Procedures:WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS TO AVOID INHALATION OF HAZARDOUS DECOMPOSITION PRODUCTS.

Unusual Fire/Explosion Hazard:NONE KNOWN. HMIS:LIKE ANY SEALED CONTAINER, BATTERY CELLS MAY RUPTURE WHEN EXPOSED TO EXCESSIVE HEAT. THIS COULD RESULT IN THE RELEASE OF TOXIC FUMES.

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

Spill Release Procedures:IN THE EVENT OF BATTERY RUPTURE, COLLECT ALL RELEASED MATERIAL IN A PLASTIC BAG FOR WASTE DISPOSAL. WEAR GLOVES. USE 3M MASK 9908. MASK PROTECT UP TO 0.5 MG/M3 MERCURY VAPOR.

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

Handling and Storage Precautions:STORAGE- STORE IN A COOL, WELL VENTILATED AREA. AVOID HEAT OR WATER. DO NOT SHORT CIRCUIT, CHARGE OR OPEN THE BATTERY CELLS.

Other Precautions:DO NOT PACK, STORE OR SHIP BATTERIES IN TIGHTLY SEALED CONTAINERS. THE SLOW EVOLUTION OF HYDROGEN GAS FROM BATTERIES MAY FORM AN EXPLOSIVE MIXTURE WITH AIR AND CAN BE IGNITED BY SHORT CIRCUIT, HIGH TEMPERATURE OR STATIC SPARKS.

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

Respiratory Protection:NONE NORMALLY REQUIRED. AS IN ANY FIRE SITUATION, WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS.

Ventilation:RECOMMENDED

Protective Gloves:NONE, UNLESS BATTERIES ARE RUPTURED.

Eye Protection:NONE, UNLESS BATTERIES ARE RUPTURED.

Other Protective Equipment:EYE WASH STATION, QUICK DRENCH SHOWER IF NEEDED.

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

Supplemental Safety and Health

MANUFACTURER STATES THAT THIS BATTERY IS AN ARTICLE AND IS NOT SUBJECT TO THE OSHA HAZARD COMMUNICATION STANDARD REQUIREMENTS.

===== Physi

cal/Chemical Properties =====

HCC:N1

Appearance and Odor:BATTERY, RECTANGULAR, DRY - NO APPRECIABLE ODOR

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

Stability Indicator/Materials to Avoid:YES

NONE KNOWN.

Stability Condition to Avoid:HEATING ABOVE 160F, CHARGING, WATER

Hazardous Decomposition Products:OXIDES OR FUMES OF MANGANESE, ZINC AND
MERCURY

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

Waste Disposal Methods:DISPOSE IN AC

CORDANCE WITH ALL LOCAL, STATE AND
FEDERAL REGULATIONS.

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