

ALEXANDER MFG CO. -- NICKEL-CADMIUM BATTERY, SEALED A-3012555 -- 6140-01-165-2165

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Product Identification
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Product ID:NICKEL-CADMIUM BATTERY, SEALED A-3012555

MSDS Date:08/05/1993

FSC:6140

NIIN:01-165-2165

MSDS Number: BRZZT

=== 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

Preparer's Name:CECOM SAFETY OFFICE

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:BREN-TRONICS INC

Address:10 BRAYTON CT

Box:City:COMMACK

State:NY

ZIP:11725-3104

Country:US

Phone:631-499-5155

CAGE:51828

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Composition/Information on Ingredients
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Ingred Name:CADMIUM (SARA III)
CADMIUM & CADMIUM HYDROXIDE 13-15%
CAS:7440-43-9
RTECS #:EU9800000
Fraction by Wt: 13-15%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE 1910.1027
ACGIH TLV:0.01 MG/M3 DUST;9394
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE
CADMIUM & CADMIUM HYDROXIDE 13-15%
CAS:21041-95-2
Fraction by Wt: 13-15%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1 MG/M3 (CD FUME)
ACGIH TLV:0.05 MG/M3 (CD FUME)

Ingre
d Name:NICKEL (SARA III)
NICKEL AND NICKEL HYDROXIDE 20-30%
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 20-30%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9293

Ingred Name:NICKEL HYDROXIDE (SARA III)
NICKEL & NICKEL HYDROXIDE 20-30%
CAS:12054-48-7
RTECS #:QR7040000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG NI/M3
ACGIH TLV:0.1 MG NI/M3; 9293
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:POTASSIUM HYDROXIDE (SARA III)
C

AS:1310-58-3
RTECS #:TT2100000
Fraction by Wt: 2-4%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C, 2 MG/M3
ACGIH TLV:C 2 MG/M3; 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:INTACT BATTERIES PRESENT NO SPECIFIC
HAZARDS. BURNING
BATTERIES MAY EMIT TOXIC FUMES. LEAKING
BATTERIES LEAK CORROSIVE MATERIAL IRRITATING TO SKIN, EYES AND
MUCOUS MEMBRANES
Explanation of Carcinogenicity:CD, NI, ARE NTP SUSPECT CARCINOGENS. CD
IS IARC CARCINOGEN.
Effects of Overexposure:ELECTROLYTE EXPOSURE TO SKIN/EYES WILL CAUSE
SEVERE IRRITATION. INHALATION OF FUMES MAY CAUSE SEVERE
RESPIRATORY IRRITATION.
Medical Cond Aggravated by Exposure:RESPIRATORY ALIMENTS- W/BURNING
BATTERIES SKIN CONDITIONS- W/ LEAKING BATTERI
ES

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

First Aid:IF BATTERY CONTENTS COME IN CONTACT WITH THE BODY WASH
AFFECTED AREA FOR AT LEAST 15 MINUTES WITH CLEAN WATER.DO NOT
ATTEMPT TO NEUTRALIZE. SEEK MEDICAL ATTENTION PROMPTLY.

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

Extinguishing Media:CARBON DIOXIDE OR DRY CHEMICAL FIRE EXTINGUISHER,
10-B:C
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE SELF CONTAINED
BREATHING APP

ARATUS. BATTERY/CELLS MAY RELEASE TOXIC FUMES, IF
SUBJECT TO FIRE/EXTREME HEAT.
Unusual Fire/Explosion Hazard:STRONG OXIDERIZERS (E.G.,ACIDS) AND FIRE.

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

Spill Release Procedures:SPILL OR LEAK PROCEDURES (PRECAUTIONS FOR SAFE
HANDLING & USE) AVOID SKIN OR EYE CONTACT. USE NON FLAMMABLE
ABSORBENT MATERIAL FOR CLEAN-UP. COORDINATE WITH INSTALLATION
SAFETY AND ENVIRONMENTAL OFFIC ES.

Neutralizing Agent:NONE SPECIFIE
D BY MANUFACTURER.

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

Handling and Storage Precautions:DO NOT ABUSE OR SHORT CIRCUIT. STORE
COOL, DRY AND IN A WELL VENT AREA. SEPARATE FROM OTHER HAZARDOUS
MATERIALS. AREA APPROVED BY LOCAL FIRE DEPARTM

Other Precautions:DO NOT INVERT BATTERY OR CAUSE TO SPILL. RECHARGE
IAW METHODS SPECIFIED IN APPLICIABLE TECHNICAL MANUAL. DO NOT
OVERCHARGE.

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

Respiratory Protection:IF BATTERIES ARE BURNING USE SCBA

Ventilation:CONTACT LOCAL SAFETY/INDUSTRIAL HYGIENE OFFICE TO DETERMINE
IF LOCAL EXHAUST VENTILATION IS NEEDED

Protective Gloves:CHEMICAL RESISTANT GLOVES

Eye Protection:CHEMICAL SAFETY GLASSES/GOGGLES

Other Protective Equipment:CHEMICAL RESISTANT APRON

Work Hygienic Practices:AVOID SKIN EYE CONTACT WITH ELECTROLYTE. DO NOT
EAT OR SMOKE IN BATTERY SERVICE AREA.

Supplemental Safety and Health

CONTRACT # ???? THIS MSDS WAS CODED F

ROM A CECOM MATERIAL SAFETY DATA

SHEET NOT THE MANUFACTUERS. CECOM SAFETY OFFICE, FT MONMOUTH, NJ
07703-5024 AUTOVON 995-3112.

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

HCC:N1

pH:UNK

Appearance and Odor:NICKEL-CADMIUM BATTERY,SEALED

Percent Volatiles by Volume:UNK

Corrosion Rate:UNK

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS (E.G., ACIDS). STORE SEPARATELY FROM OTH

ER

HAZARDOUS MATERIALS

Stability Condition to Avoid:FIRE AND EXTREME HEAT. DO NOT SHORT
CIRCUIT OR OVERCHARGE

Hazardous Decomposition Products:WHEN EXPOSED TO FIRE OR EXTREME HEAT,
BATTERIES MAY EMIT TOXIC FUMES

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

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH ALL
APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. COORDINATE WITH
SUPPORTING INSTALLATION AND/OR MACOM ENVIRONMENTAL OFFICE PRIOR TO

DISPOSAL

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