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ALEXANDER MFG CO. -- NICAD BATTERY SEALED -- 6140-01-314-8413

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

Product ID:NICAD BATTERY SEALED

MSDS Date:12/01/1992

FSC:6140

NIIN:01-314-8413

MSDS Number: BTSTN === 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 / 515-423-1644

Emergency Phone N

um:515-423-8955 / 515-423-1644

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

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

Ingred Name:NICKEL (SARA III) (INGREDIENTS 1 & 2 = 20-30%)

CAS:7440-02-0

RTECS #:QR5950000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9394

Ingred Name: NICKEL HYDROXID

E (SARA III) (INGREDIENTS 1 & 2 = 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; 9394

EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM (SARA III)

CAS:7440-43-9

RTECS #:EU9800000 Fraction by Wt: 13-15%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.2 MG/M3 DUST; Z-2 ACGIH TLV:0.01 MG/M3 DUST;9394

EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name: POTASSIUM HYDROXIDE (SARA III)

CAS:1310-58-3

RTECS #:TT2100000

Fra

ction by Wt: 2-4% %

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

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

LD50 LC50 Mixture: NOT GIVEN FOR PRODUCT AS A WHOLE

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:UNDER NORMAL USE, BATTERY DOES NOT RELEASE TOXIC MATERIALS AND THEREFORE IS NOT A HEALTH HAZAR

D. IF

BATTERY RUPTURES: SKIN MAY COME IN CONTACT WITH POTASSIUM HYDROXIDE AND BURN; EYES MAY COME IN CONTA CT WITH POTASSIUM HYDROXIDE AND BURN; CADMIUM FUMES MAY BE INHALED.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:EYE BURNS/IRRITATION, SKIN BURNS/IRRITATION, RESPIRATORY TRACT IRRITATION.

Medical Cond Aggravated by Exposure: NONE SPECIFIED

BY MANUFACTURER.		
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First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. IN HALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.		
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Flash Point:NONFLAMMABLE Lower Limits:NOT GIVEN Upper Limits:NOT GIVEN Extinguishing Media:NONFLAMMABLE. USE MEDIA SUITABLE FOR SURROUNDING FIRE. Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. Unusual Fire/Explosion Hazard:CADMIUM FUMES MAY BE RELEASED DURING BURNING.		
======== Accidental Release Measures =========		
Spill Release Procedures:ELECTROLYTE, POTASSIUM HYDROXIDE IS CAUSTIC. DO NOT ALLOW SKIN OR EYE CONTACT. FLUSH WITH WATER. THERE IS ONLY A TRACE AMOUNT OF POTASSIUM HYDROXIDE AVAILABLE IN THE BATTERY. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.		
============ Handling and Storage ==============		
Handling and Storage Precautions:DO NOT INCINERATE OR MUTILATE; MAY CAUSE BURSTING WHICH WOULD RELEASE TOXIC MATERIAL. Other Precautions:DO NOT SHORT CIRCUIT BATTERY; IT MAY CAUSE BURNS WHEN IN CONTACT WITH THE SKIN OR EYES.		
====== Exposure Controls/Personal Protection ========		
Respiratory Protection:NOT NORMALLY REQUIRED. Ventilation:LOCAL EXHAUST AND MECHANICAL (GENERAL) VENTILATION TO MAINTAIN EXPOSURE LEVELS.		

Protective Gloves: NONE SPECIFIED BY MANUFACTURER.

Eye Protection: NONE SPECIFIED BY MANUFACTURER.

Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT AND BEFORE EATING DRINKING OR SMOKING.

Sup

pie	mental Salety and Health	
MF	R CONSIDERS THIS BATTERY AN "ARTICLE" AS DEFINED IN 29 CFR 1910-1200	
5	SECTION (C). FURTHER, THIS ARTICLE DOES NOT RELEASE OR OTHERWISE	
F	RESULT IN EXPOSURE TO A HAZARDOUS CHEMICAL UNDER THE CONDITIONS O)F
I	NTENDED USE. EACH CELL OF THE BATTERY IS A SEALED CONTAINER	
Е	ENCLOSING A NICKEL ELECTRODE, A CADMIUM ELECTRODE & KOH.	

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

HCC:N1
Boiling Pt:B.P. Text:NOT GIVEN
Melt/Freeze Pt:M.P/F.P Te
xt:NOT GIVEN
Vapor Pres:NOT GIVEN

Vapor Pres:NOT GIVEN
Vapor Density:NOT GIVEN
Spec Gravity:NOT GIVEN

Evaporation Rate & Dry Reference: NOT GIVEN

Solubility in Water: NOT GIVEN

Appearance and Odor:BATTERY IS SEALED CONTAINER WITH A NICKEL ELECTRODE, A CADMIUM ELECTRODE & KOH

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

Stability Indicator/Materials to Avoid:YES
NONE SPECIFIED BY MANUFACTURER.
Stability Condition to Avoid:PHYSICAL DAMAGE, RUPTURE OF BATTERY CELL.
Hazardous Decomposition Pro
ducts:CADMIUM FUMES MAY BE RELEASED DURING A
FIRE.

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

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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