

ALEXANDER MFG CO. -- H4596 NICAD BATTERY,SEALED -- 6140-01-304-6422

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Product Identification  
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Product ID:H4596 NICAD BATTERY,SEALED

MSDS Date:12/01/1992

FSC:6140

NIIN:01-304-6422

MSDS Number: BTGLL

=== 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:515-423-1161

Emergency Phone Num

:515-423-8955

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

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Composition/Information on Ingredients  
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Ingred Name:NICKEL (SARA III)(INGRED1+INGRED2=20-30%).

CAS:7440-02-0

RTECS #:QR5950000

Other REC Limits:NONE RECOMME

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9293

Ingred Name:NICKEL HYDROXIDE (SARA III) (INGRED1+INGR

ED2=20-30%).  
CAS:12054-48-7  
RTECS #:QR7040000  
Other REC Limits:NONE RECOMME  
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:CADMIUM (SARA III) (INGRED3+INGRED4=13-15%).  
CAS:7440-43-9  
RTECS #:EU9800000  
Other REC Limits:NONE RECOMME  
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 (INGRED3+INGRED4=13-15%).  
CAS:21041-95-2  
Other REC Limits:NONE RECOMME  
OSHA PEL:0.1 MG/M3 (CD  
FUME)  
ACGIH TLV:C, 0.05 MG/M3 CD

Ingred Name:POTASSIUM HYDROXIDE (SARA III)  
CAS:1310-58-3  
RTECS #:TT2100000  
Fraction by Wt: 2-4%  
Other REC Limits:NONE RECOMME  
OSHA PEL:C, 2 MG/M3  
ACGIH TLV:C, 2 MG/M3; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:THE H4596 IS AN ARTICLE PER  
29CFR

1910.1200.INHAL:DURING A FIRE CADMIUM FUMES MAY BE RELEASED.SKIN:IF BATTERY LEAKS,TRACE AMOUNTS OF KOH MAY CAUSE BURNS.EYES:IF BATTERY LEAKS,TRACE AMOUNTS OF KOH MAY CAUSE BURNS.INGEST:UNLIKELY ROUTE OF EXPOSURE.  
Explanation of Carcinogenicity:NICKEL AND CADMIUM ARE LISTED UNDER IARC AND NTP. NO EXPOSURE EXPECTED UNDER NORMAL CONDITIONS OF USE.  
Effects of Overexposure:NO EXPOSURE EXPECTED UNDER NORMAL CONDITIONS OF USE. SKIN/EYES:IF BATTERY RUPTURES, IT MAY CAUSE BURNS.INHAL : LC50  
INHAL RAT=25MG/M3/30MIN.CAUSE BREATHING DIFFICULTY.  
Medical Cond Aggravated by Exposure:NONE EXPECTED UNDER NORMAL CONDITIONS OF USE.

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

First Aid:SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH WATER.IF IRRITATION PERSISTS,CALL PHYSICIAN.EYES:FLUSH WITH WATER FOR 15 MINUTES.IF IRRITATION PERSIST,CALL PHYSICIAN.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED.INGEST:UNLIKELY ROUTE OF EXPOSURE.

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

Flash Point:NONE  
Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.  
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.  
Unusual Fire/Explosion Hazard:CADMIUM FUMES MAY BE RELEASED DURING A FIRE.

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

Spill Release Procedures:IF BATTERY RUPTURES, WEAR PROTECTIVE GLOVES. PICK UP, AND PLACE IN APPROPRIATE DISPOSAL CONTAINER. WASH AREA WITH PLENTY OF WATER.  
Neutralizing Agent:NONE.THERE IS ONLY A TRACE AMOUNT OF POTASSIUM HYDROXIDE IN THIS BATTERY.

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

Handling and Storage Precautions:PROTECT FROM PHYSICAL DAMAGE, HEAT, FLAMES.  
Other Precautions:DO NOT SHORT CIRCUIT BATTERIES. THEY MAY CAUSE

**BURNS**

WHEN IN CONTACT WITH SKIN OR EYES.

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

Respiratory Protection:NOT NESCESSARY IN NORMAL SERVICE.IN THE EVENT OF A FIRE,USE A SELF-CONTAINED BREATHING APPARATUS TO AVOID EXPOSURE TO CADMIUM FUMES.

Ventilation:NOT NEEDED IN NORMAL SERVICE.

Protective Gloves:RUBBER. WHEN HANDLING RUPTURED BATTERIES

Eye Protection:GOGGLES WHEN HANDLING RUPTURED BATTERIES

Other Protective Equipment:PROTECTIVE CLOTHING,AS NEEDED.

Work H

ygienic Practices:USE REASONABLE CARE IN HANDLING THIS ITEM.

Supplemental Safety and Health

NORMALLY,FSC 6140,NICKEL/CADMIUM BATTERY FILLED WITH KOH IS

REGULATED,HOWEVER,MFR.STATES IN THE MSDS THAT THIS BATTERY IS AN ARTICLE PER 29CFR1910.1200.

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

HCC:Z5

Appearance and Odor:SEALED NICAD BATTERY

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

Stability Indicator/Materials to Avoid:YES

MANUFACTURER ST

ATES NONE KNOWN.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES.

Hazardous Decomposition Products:CADMIUM FUMES.

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

Waste Disposal Methods:CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER.

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. DO NOT INCINERATE.

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