

FOURDEE (OUT OF BUSINESS) -- NICKEL CADMIUM BATTERY -- 6140-01-063-3918

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

Product ID:NICKEL CADMIUM BATTERY

MSDS Date:09/01/1992

FSC:6140

NIIN:01-063-3918

MSDS Number: BNRHJ

=== Responsible Party ===

Company Name:FOURDEE (OUT OF BUSINESS)

City:SANFORD

State:FL

ZIP:32773-6062

Country:US

Preparer's Name:HMIS TECHNICIAN

CAGE:5L487

=== Contractor Identification ===

Com

pany Name:EMERSON ELECTRIC CO, ELECTRONICS AND SPACE DIV

Address:1201 SILVER LAKE RD

City:SANFORD

State:FL

ZIP:32773-6062

Country:US

CAGE:07661

Company Name:FOURDEE (OUT OF BUSINESS)

Box:City:SANFORD

State:FL

ZIP:32773-6062

Country:US

CAGE:5L487

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

Ingred Name:CADMIUM (SARA III)

CAS:7440-43-9

RTECS #:EU9800000

Other REC Limits:NONE SPECIFIED

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
CAS:21041-95-2
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.1 MG/M3 (CD FUME)
ACGIH TLV:0.05 MG/M3 (CD FUME)

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Other REC Limits:NONE SPECIFIED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192

Ingred Name:NICKEL HYDROXIDE (SARA III)
CAS:12054-48-7
RTECS #:QR7040000
Other REC Limits:NONE SPECIFIED
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 HYDROX
IDE (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

Ingred Name:SODIUM HYDROXIDE (SARA III)
CAS:1310-73-2
RTECS #:WB4900000
Other REC Limits:NONE SPECIFIED
OSHA PEL:2 MG/M3
ACGIH TLV:C 2 MG/M3; 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:COBALT HYDROXIDE
CAS:21041-93-0
Other REC Limits:NONE SPECIFIED

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

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Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:EYES/SKIN: CAN CAUSE BURNS AND
PERMANENT INJURY DUE TO CAUSTIC POTASSIUM HYDROXIDE(KOH). CADMIUM
AND NICKEL AND THEIR COMPOUNDS CAN CAUSE CHRONIC HEALTH PROBLEMS
SUCH AS CANCER, RENAL FAILURE AND RESPIRATORY PROBLEMS.
Explanation of Carcinogenicity:NICKEL AND CADMIUM AND THEIR COMPOUNDS
ARE KNOWN OR SUSPECT CARCINOGENS.
Effects of
Overexposure:EYE AND SKIN BURNS FROM POTASSIUM HYDROXIDE.
CENTRAL NERVOUS SYSTEM DISORDERS AND CANCERS FROM LONG TERM EFFECTS
OF HEAVY METAL POISONING.
Medical Cond Aggravated by Exposure:PERSONS WITH SKIN AND RESPIRATORY
DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:FLUSH WITH WATER. FOR EYE CONTACT, FLUSH WITH LARGE AMOUNTS
OF WATER FOR 15 MINUTES AND CONTACT A PHYSICIAN IMMEDIATELY. IF
INHA
LATION EXPOSURE, REMOVE TO FRESH AIR AND CONSULT A PHYSICIAN.

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

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY
CHEMICAL AS APPROPRIATE FOR SURROUNDINGS.
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.
Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE
PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS SUCH AS TOXIC
CADMIUM OXIDE FUMES.

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

Spill Release Procedures:AVOID EYE AND SKIN CONTACT WHEN DISCARDING
USED BATTERIES.
Neutralizing Agent:5% ACETIC ACID OR VINEGAR

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

Handling and Storage Precautions:STORE AT ROOM TEMPERATURE IN A DRY
PLACE.
Other Precautions:AIR BREATHING UNITS ARE NEEDED IF MATERIAL

LS ARE
INCINERATED. INCINERATION IS NOT RECOMMENDED.

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

Respiratory Protection:NO SPECIAL PRECAUTIONS UNLESS AT HIGH
TEMPERATURE IN WHICH CASE AIR BREATHER UNITS ARE REQUIRED.

Ventilation:NO SPECIAL PRECAUTIONS.

Protective Gloves:NEOPRENE, RUBBER OR LATEX NITRILE

Eye Protection:SAFETY GOGGLES

Other Protective Equipment:RUBBER OR PLASTIC GARMENTS.

Work Hygienic Practices:AVOID EYE/SKIN CONTACT WITH LEAKING BATTERIES.

W

ASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING.

Supplemental Safety and Health

AVOID HIGH TEMPERATURE USE. DANGEROUS FUMES OF CADMIUM OXIDE SUBLIME AT
2800F. MSDS GENERATED BY HMIS TECHNICIAN: MFR NO LONGER IN
BUSINESS/VENDOR NOT IN BUSINESS.

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

HCC:N1

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

Stability Indicator/Materials to Avoid:YES

ANY SUBSTANCE WHICH WOULD CORRODE THE CASING
AND CAUSE LEAKAGE OF THE
BATTERY ELECTROLYTE.

Stability Condition to Avoid:HIGH TEMPERATURES AND OPEN FLAMES

Hazardous Decomposition Products:BATTERY MAY EMIT HAZARDOUS VAPORS OF
POTASSIUM HYDROXIDE AND CADMIUM AND NICKEL AND THEIR COMPOUNDS WHEN
HEATED.

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

Waste Disposal Methods:DO NOT INCINERATE. BROKEN BATTERIES OR WITH
LEAKING ELECTROLYTE CONSTITUTE HAZARDOUS WASTE. CONSULT WASTE
DISPOSAL OFFICIALS FOR ADV
ICE.

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