

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

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Product Identification  
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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 ===

Company 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

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Composition/Information on Ingredients  
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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 HYD  
ROXIDE (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

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===== 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  
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INHALATION 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 CAU  
SE  
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 MATE

RIALS 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.

WASH 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 ADVICE.

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