

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 =====

===

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 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 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.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular s

ituation.