

AVEX ELECTRONICS CORP -- NICKEL-CADMIUM SEALED CELL BATTERY -- 6140-01-137-6032

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

Product ID:NICKEL-CADMIUM SEALED CELL BATTERY

MSDS Date:08/17/1992

FSC:6140

NIIN:01-137-6032

MSDS Number: BPRPF

=== Responsible Party ===

Company Name:AVEX ELECTRONICS CORP

Address:1683 WINCHESTER ROAD

Box:1026

City:BENSALEM

State:PA

ZIP:19020-4510

Country:US

Info Phone Num:215-638-15

15

Emergency Phone Num:215-638-1515

CAGE:58414

=== Contractor Identification ===

Company Name:AVEX ELECTRONICS CORP

Address:1683 WINCHESTER ROAD

Box:1026

City:BENSALEM

State:PA

ZIP:19020-4510

Country:US

Phone:215-638-1515

CAGE:58414

Company Name:HEWLETT-PACKARD CO, CORPORATE HQ

Address:3000 MINUTEMAN RD

Box:City:ANDOVER

State:MA

ZIP:01810-1032

Country:US

Phone:404-648-8754/FAX: 800-947-3299

CAGE:28480

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

Ingred Name:CADMIUM (

SARA III)  
CAS:7440-43-9  
RTECS #:EU9800000  
Other REC Limits:NONE RECOMMENDED  
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 OXIDE (SARA III)  
CAS:1306-19-0  
RTECS #:EV1925000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:SEE 1910.1027  
ACGIH TLV:0.05 MG(CD)/M3; 9293

Ingred Name:CADMIUM HYDROXIDE  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.1 MG/M3 (CD FUME)  
ACGIH TLV:0.05 MG/M3 (CD FUME)

Ingred Name:NICKEL HYDROXIDE (SARA III)  
CAS:12  
054-48-7  
RTECS #:QR7040000  
Other REC Limits:NONE RECOMMENDED  
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:NICKEL (SARA III)  
CAS:7440-02-0  
RTECS #:QR5950000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9293

Ingred Name:NICKEL OXIDE  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3 (NI DUST)  
ACGIH TLV:0.05 MG/M3 (NI DUST)

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

Routes of Entry: Inhalat

ion:NO Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE: CONTACT WITH CELL CONTENTS MAY CAUSE SKIN AND EYE IRRITATION. INHALING DUST OR MIST FROM CELL CONTENTS MAY CAUSE RESPIRATORY IRRITATION. SWALLOWING CELL CONTENTS MAY CAUSE DIGESTIVE SYSTEM DISTRESS. CHRONIC: NONE SPECIFIED BY MANUFACTURER.

Explanation of Carcinogenicity:NICKEL AND CADMIUM AND THEIR COMPOUNDS ARE KNOWN OR SUSPECT CARCINOGENS.

#### Effects

of Overexposure:INHALED: COUGHING, SHORTNESS OF BREATH, WHEEZING, SNEEZING, SORE THROAT. EYES: BURNING SENSATION, REDNESS, PAIN, TEARING. SKIN: REDNESS, SWELLING, ITCHING. INGESTED: NAUSEA, VOMITING.

Medical Condition Aggravated by Exposure:PERSONS WITH SKIN AND RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:SKIN: FLUSH WITH WATER. EYE: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES AND CONTACT A PHYSICIAN IMMEDIATELY.

INHALATION: REMOVE TO FRESH AIR AND CONSULT A PHYSICIAN. INGESTED: IF CONSCIOUS, GIVE WATER, THEN INDUCE VOMITING. GET MEDICAL HELP.

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

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, OR DRY CHEMICAL

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:CONTAIN SPILL. COLLECT SPILLED MATERIAL AND PLACE IN A CONTAINER FOR LATER DISPOSAL. NEUTRALIZE AND FLUSH SPILL AREA WITH WATER.

Neutralizing Agent:5% ACETIC ACID OR VINEGAR

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

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Handling and Storage Precautions:STORE AT ROOM TEMPERATURE IN A DRY PLACE.

Other Precautions:DO NOT INCINERATE BATTERIES.

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

Respiratory Protection:NONE NORMALLY REQUIRED.

Ventilation:NONE NORMALLY REQUIRED.

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

ITEM IS HEWLETT PACKARD PART NUMBER: 1420-0251.

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

HCC:N1

Spec Gravity:1.6

Appearance and Odor:EACH BATTERY CELL IS A SEALED CYLINDRICAL CONTAINER ENCLOSING THE ELECTROLYTES.

===== 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 ADVIC

E. DISPOSE OF IN ACCORDANCE WITH LOCAL,  
STATE AND FEDERAL REGULATIONS.

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