

HEWLETT-PACKARD CO,CORPORATE HQ -- P/N 1420-0312 NICKEL CADMIUM BATTERY --
6140-00-469-4499

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

Product ID:P/N 1420-0312 NICKEL CADMIUM BATTERY

MSDS Date:07/06/1990

FSC:6140

NIIN:00-469-4499

MSDS Number: BRFNS

=== Responsible Party ===

Company Name:HEWLETT-PACKARD CO,CORPORATE HQ

Address:3000 HANOVER ST

City:PALO ALTO

State:CA

ZIP:94304-1112

Country:US

Info Phone Nu

m:415-857-1501

Emergency Phone Num:415-857-1501

CAGE:28480

=== Contractor Identification ===

Company Name:ENERGIZER POWER SYSTEMS (FORMALLY GATES ENERGY PRODUCTS
INC)

Address:US HWY 411 N

Box:147114

City:GAINESVILLE

State:FL

ZIP:32614-7114

Country:US

Phone:904-462-3911

CAGE:19209

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

Company Name:INDUSTRIAL PARTS CORP

Address

s:2201 HIGH ST
Box:City:PORTSMOUTH
State:VA
ZIP:23704-2917
Country:US
Phone:804-393-4033
CAGE:2Z331

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Composition/Information on Ingredients
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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: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:COBALT COMPOUNDS
Other REC Limits:NONE RECOMMENDED

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

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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 Con

d 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:SCBA UNITS ARE NEEDED IF MATERIALS ARE INCINERATED. INCINERATION IS NOT RECOMMENDED.

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

Respiratory Protection:NO SPECIAL PRECAUTIONS UNLESS

AT HIGH

TEMPERATURE IN WHICH CASE SCBA 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

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

HCC:N1

Appearance and Od

or: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, HUMID
CONDITIONS.

Hazardous Decomposition Products:BATTERY MAY EMIT HAZARDOUS VAPORS OF
POTASSIUM HYDROXIDE AND CADMIUM AND NICKEL AN
D 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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