

HEWLETT-PACKARD CO SAN DEIGO DIV -- NICKEL CADMIUM BATTERY, P/N 04935-62901 --  
6140-01-341-5339

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

Product ID:NICKEL CADMIUM BATTERY, P/N 04935-62901

MSDS Date:07/15/1994

FSC:6140

NIIN:01-341-5339

MSDS Number: CBTHV

=== Responsible Party ===

Company Name:HEWLETT-PACKARD CO SAN DEIGO DIV

Address:16399 W. BERNARDO DRIVE

City:SAN DEIGO

State:CA

ZIP:92127-1801

Country:

US

Info Phone Num:619-487-4100

Emergency Phone Num:619-487-4100

Preparer's Name:S. Z. MANSDORF AND ASSOC

CAGE:1X966

=== Contractor Identification ===

Company Name:HEWLETT PACKARD CO

Address:16399 W BERNARDO DR

Box:City:SAN DIEGO

State:CA

ZIP:92127-1899

Country:US

Phone:619-487-4100

CAGE:98220

Company Name:HEWLETT-PACKARD CO.

Address:1320 KIFEER ROAD

Box:44548

City:SUNNYVALE

State:CA

ZIP:94144-4548

Country:US

Phone:408-738-8858

CAGE:1X966

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

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Ingred Name:NICKEL (SARA 313) (CERCLA)  
CAS:7440-02-0  
RTECS #:QR5950000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9596

Ingred Name:CADMIUM (SARA 313) (CERCLA)  
CAS:7440-43-9  
RTECS #:EU9800000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.2 MG/M3 DUST; Z-2  
ACGIH TLV:0.01 MG/M3 DUST;9596  
EPA Rpt Qty:10 LBS  
DOT Rpt Qty:10 LBS

Ingred Name:COBALT (SARA 313)  
CAS:7440-48-4  
RTECS #:GF8750000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.1 MG/M3  
ACGIH TLV:0.02 MG/M3  
; A3; 9596

Ingred Name:NICKEL HYDROXIDE (SARA 313) (CERCLA)  
CAS:12054-48-7  
RTECS #:QR7040000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG(NI)/M3  
ACGIH TLV:0.1 MG(NI)/M3; 9596  
EPA Rpt Qty:10 LBS  
DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE  
CAS:21041-95-2  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.05 MG CD/M3  
ACGIH TLV:0.05 MG CD/M3

Ingred Name:COBALT HYDROXIDE  
CAS:1307-86-4  
RTECS #:GG0904000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.05 MG/M3(COBALT)  
ACGIH TLV:0.1 MG/M3

Ingred Name

:POTASSIUM HYDROXIDE (CERCLA)  
CAS:1310-58-3  
RTECS #:TT2100000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C 2 MG/M3  
ACGIH TLV:C 2 MG/M3; 9596  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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Hazards Identification  
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LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT AS A WHOLE  
Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:THIS PRODUCT IS REGARDED AS AN  
"ARTICLE" BY DEFINITION UNDER 29 CFR 1910.1200 (C). THE PRODUCT  
CONTAINS NICKEL, CADMIUM AND COBALT COMPOUNDS, AS WELL AS  
POTASSIUM HYDROXIDE. THE PHYSICAL FORM OF THE PRODUCT, HOWEVER,  
PRECLUDES EXPOSURE. CONTACT WITH CONTENTS MAY CAUSE SKIN/EYE  
IRRITATION, MAY LEAD TO CANCER.  
Explanation of Carcinogenicity:CADMIUM AND NICKEL AND THEIR COMPOUNDS  
ARE CONSIDERED POTENTIAL HUMAN CARCINOGENS BY NTP AND IARC.  
Effects of Overexposure:SKIN IRRITATION, CORROSIVE EYE DAMAGE.  
Medical Cond Aggravated  
by Exposure:NONE SPECIFIED BY MANUFACTURER.

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First Aid Measures  
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First Aid:IF SKIN CONTACT WITH CONTENTS OCCURS, WASH AFFECTED AREAS  
THOROUGHLY WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION  
DEVELOPS. IF EYE CONTACT OCCURS, FLUSH THOROUGHLY WITH RUNNING  
WATER FOR AT LEAST 15 MINUTES, HOLDING EYELIDS OPEN. GET PROMPT  
MEDICAL ATTENTION.

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Fire Fighting Measures  
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Flash Point:NON  
FLAMMABLE  
Lower Limits:NOT GIVEN  
Upper Limits:NOT GIVEN  
Extinguishing Media:DRY CHEMICAL, FOAM, CARBON DIOXIDE  
Fire Fighting Procedures:USE NIOSH APPROVED SELF-CONTAINED BREATHING  
APPARATUS, OPERATING IN THE POSITIVE PRESSURE MODE AND FULL FIRE  
FIGHTING CLOTHING.  
Unusual Fire/Explosion Hazard:CADMIUM, NICKEL AND COBALT FUMES MAY BE  
EVOLVED IN FIRE SITUATIONS.

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Accidental Release Measures  
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Spill Release Procedures:RECOVER PRODUCT AND PLACE IN SUI

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CONTAINER FOR REUSE OR DISPOSAL. AVOID CONDITIONS THAT MAY CAUSE SHORT CIRCUITING. IF BATTERY CONTENTS ARE RELEASED, DO NOT TOUCH SPILLED MATERIAL. TAKE UP WITH S AND OR OTHER ABSORBENT & COLLECT FOR DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE. DO NOT SHORT-CIRCUIT. MAY CAUSE THERMAL BURN OR SERVE AS IGNITION SOURCE IN FLAMMABLE OR EXPLOSIVE ATMOSPHERE.

Other Precautions:ALL CHEMICALS SHOULD BE HANDLED SO AS TO PREVENT EYE CONTACT AND EXCESSIVE OR REPEATED SKIN CONTACT. APPROPRIATE EYE AND SKIN PROTECTION SHOULD BE EMPLOYED IF EXPOSURE TO CONTENTS IS ANTICIPATED. INHALATION OF DUST/VAPORS SHOULD BE AVOIDED.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL CONDITIONS OF USE.  
Ventilation:NONE REQUIRED UNDER NORMAL CONDITIONS OF USE

Protective Gloves:NONE REQUIRED UNDER NORMAL CONDITIONS

Eye Protection:SAFETY GLASSES

Other Protective Equipment:AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health

THIS PRODUCT IS REGARDED AS AN "ARTICLE" BY DEFINITION UNDER 29 CFR 1910.1200 (C). THE PRODUCT CONTAINS NICKEL, CADMIUM AND COBALT COMPOUNDS, AS WELL AS POTASSIUM HYDROXIDE. THE PHYSICAL FORM OF THE PRODUCT, HOWEVER, PRECLUDES EXPOSURE.

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

HCC:N1

Boiling Pt:B.P. Text:NOT GIVEN

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Vapor Pres:NOT GIVEN

Vapor Density:NOT GIVEN

Spec Gravity:NOT GIVEN

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:INSOLUBLE

Appearance and Odor:SEALED METALLIC CYLINDER, NO ODOR

Percent Volatiles by Volume:NIL

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

y Data =====

Stability Indicator/Materials to Avoid: YES  
NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid: AVOID PROLONGED EXPOSURE TO HUMID  
CONDITIONS OR EXCESSIVE HEAT. DO NOT PUNCTURE, MUTILATE OR  
INCINERATE.

Hazardous Decomposition Products: OXIDES OF CARBON AND METALLIC OXIDES  
UPON BURNING.

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

Waste Disposal Methods: DO NOT INCINERATE. DISPOSE OF IN ACCORDANCE WITH  
APPLICABLE FEDERAL, STATE AND LOCAL LAWS OR REGULATIONS.

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