

HEWLETT-PACKARD CO,CORPORATE HQ -- NICKEL CADMIUM BATTERY, P/N 04935-62901 --  
6140-01-081-9303

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

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

MSDS Date:07/15/1994

FSC:6140

NIIN:01-081-9303

MSDS Number: CBTDJ

=== Responsible Party ===

Company Name:HEWLETT-PACKARD CO,CORPORATE HQ

Address:3000 HANOVER ST

City:PALO ALTO

State:CA

ZIP:94304-1112

Country:US

Info Ph

one Num:415-857-1501/FOR MSDS 800-468-8347

Emergency Phone Num:415-857-1501

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

CAGE:28480

=== Contractor Identification ===

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: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

imits: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

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

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 COLBALT 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.

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

=====

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.

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

Flash Point:NONFLAMMABLE

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.

===== Accidental Release Measures =====

Spill Release Procedures:RECOVER PRODUCT AND PLACE IN SUITABLE 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 SAND OR OTHER ABSORBENT & COLLECT FOR DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== 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.

===== 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 E

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 COMOUNDS, AS WELL AS POTASSIUM HYDROXIDE. THE PHYSICAL FORM OF THE PR ODUCT, HOWEVER, PRECLUDES EXPOSURE.

=====  
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

=====  
Stability and Reactivity 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.

=====

=

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 situation.