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RACAL COMMUNICATIONS INC -- NI-CAD BATTERY PACK (13.2 V), 3600064-1,MA 6140-01-220-5343

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

Product ID:NI-CAD BATTERY PACK (13.2 V), 3600064-1,MA

MSDS Date:05/11/1993

FSC:6140

NIIN:01-220-5343

MSDS Number: BQWHP === Responsible Party ===

Company Name: RACAL COMMUNICATIONS INC

Address:5 RESEARCH PL

City:ROCKVILLE

State:MD

ZIP:20850-3213

Country:US

Info Phone Num:301

-948-4420

Emergency Phone Num:301-948-4420

CAGE:23386

=== Contractor Identification ===

Company Name: RACAL COMMUNICATIONS INC

Address:5 RESEARCH PL

Box:City:ROCKVILLE

State:MD

ZIP:20850-3213 Country:US

Phone:301-948-4420

CAGE:23386

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

Ingred Name: CADMIUM (SARA III), PERCENTAGE OF INGREDIENTS 1 & 2: 13-15 AS CADMIUM.

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 HYDROXIDE

CAS:21041-95-2

Other REC Limits: NONE RECOMMENDED

OSHA PEL:NOT ESTABLISHED. ACGIH TLV:NOT ESTABLISHED.

Ingred Name:NICKEL (SARA III), PERCENTAGE OF INGREDIENTS 3 & 4: 20-30

AS NICKEL 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 HYDROXIDE (SARA III)

CAS:12054-48-7 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:POTASSIUM HYDROXIDE (SARA III)

CAS:1310-58-3

RTECS #:TT2100000 Fraction by Wt: 2-4% DRY

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

Ingred Name: COBALT (SARA III), PERCENTAGE OF INGREDIENTS 6 & 7: 1-2 AS

COBALT CAS:7440-48-4

RTECS #:GF8750000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.1 MG/M3;AS CO

ACGIH TLV:0.05 MG/M3;DUST 9293

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
============= Hazards Identification =============
LD50 LC50 Mixture:NOT RELEVANT Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES Health Hazards Acute and Chronic:ACUTE AND CHRONIC- ELECTROLYTE (POTASSIUM HYDROXIDE) FROM LEAKER IS CAUSTIC. CONTACT WITH EYES OR SKI N CAN CAUSE IRRITATION AND BURNS. FUMES ARE TOXIC AND HARMFUL IF INHALED. Explanation of Carcinogenicity:CONTAINS CADMIUM [7440-43-9] WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN. ALSO NICKEL. Effects of Overexposure:ELECTROLYTE (POTASSIUM HYDROXIDE) FROM LEAKER
IS CAUSTIC. CONTACT WITH EYES OR SKIN CAN CAUSE IRRITATION AND BURNS. FUMES ARE TOXIC AND HARMFUL IF INHALED.  Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN
DISORDERS O R EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE PRODUCT'S DUSTS, VAPORS OR FUMES.
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First Aid:GET MEDICAL ATTENTION IMMEDIATELY. EYE/SKIN:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL:UNLIKELY.
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Flash Po

int:NONE
Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.
Fire Fighting Procedures:WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING
APPARATUS OPERATED IN THE POSITIVE PRESSURE MODE.
Unusual Fire/Explosion Hazard:MAY BURST WHEN SUBJECT TO EXTREME HEAT OR FIRE, RELEASING CADMIUM FUME WHICH IS TOXIC AND CAN CAUSE DEATH.
======== Accidental Release Measures ==========
Spill R
elease Procedures:BATTERY AND CELL CASES WILL NORMALLY CONTAIN
MATERIALS OF CONCERN. USE INDUSTRIAL ABSORBENT TO COLLECT LIQUID
POTASSIUM HYDROXIDE. AVOID SKIN AND EYE CONTACT.
Neutralizing Agent:WEAK ACID FOR POTASSIUM, NICKEL & CADMIUM HYDROXIDE
============== Handling and Storage ==============
Handling and Storage Precautions:STORE IN COOL PLACE. DO NOT ELECTRICALLY SHORT CIRCUIT. USE PROPER BATTERY CHARGER. AVOID
BREAKING, CRUSHING OR BURNING BATTERIES. Ot
her Precautions:AVOID INCINERATION OR MUTILATION. DO NOT TOUCH BROKEN
OR LEAKING BATTERIES. KEEP OUT OF REACH OF CHILDREN.
====== Exposure Controls/Personal Protection ========
Respiratory Protection: USE NIOSH APPROVED MIST OR DUST MASK WHEN
HANDLING BROKEN OR LEAKING BATTERIES. WEAR SELF-CONTAINED BREATHING APPARATUS IN EMERGENCIES.
Ventilation:ROOM VENTILATION
Protective Gloves: RUBBER WHEN HANDLING LEAKERS
Eye Protection:SAFETY GOGGLES RECOMMENDED
Other Protective E quipment:EYE WASH STATION, QUICK DRENCH SHOWER
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING.
Supplemental Safety and Health
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HCC:Z5

Appearance and Odor:PLASTIC HOUSING, 9.45" X 2.09" X 3.59", MAXIMUM

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

Spec Gravity:NOT RELEVANT
Solubility in Water:NOT RELEVANT

WEIGHT 4 LBS

Stability Indicator/Materials to Avoid:YES NOT KNOWN Stability Condition to Avoid:EXCESSIVE HEAT, FIRE Hazardous Decomposition Products:TOXIC CADMIUM FUME

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

Waste Disposal Methods:CELLS AND BATTERIES MAY BE RETURNED AT SENDERS EXPENSE TO A PERMITTED TREATMENT, STORAGE, DISPOSAL FACILITY (TSDF). DISPOSAL MUST BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAW S AND REGULATIONS.

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