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

6140-01-220-5343

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. |
| ====================================== |
| 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. |
| ====================================== |
| 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 |
| ====================================== |
| 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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