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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 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

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.

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 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

Spec Gravity:NOT RELEVANT Solubility in Water:NOT RELEVANT Appearance and Odor:PLASTIC HOUSING, 9.45" X 2.09" X 3.59", MAXIMUM WEIGHT 4 LBS

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

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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