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Product ID:NICKEL CADMIUM BATTERY, BB-412/U MSDS Date:04/28/1997 FSC:6140 NIIN:01-154-0064 MSDS Number: CGMJK === Responsible Party === Company Name: ENERGIZER POWER SYSTEMS, DIV OF EVEREADY BATTERY CO Address: US HIGHWAY 441N City:ALACHUA State:FL ZIP:32615 Cou ntry:US Info Phone Num:216-835-7368 Emergency Phone Num:216-835-7368 CAGE:EO263 === Contractor Identification === Company Name: ENERGIZER POWER SYSTEM, DIV. OF EVEREADY BATTERY Address: US HIGHWAY 441N Box:City:ALACHUA State:FL ZIP:32615 Country:US Phone:440-835-7368 CAGE:EO263 Ingred Name:CADMIUM (SARA 313) (CERCLA) TOTAL OF INGREDIENTS 1-3 = 13-22% CAS:7440-43-9 RTECS #:EU9800000 Fraction by Wt: SEE ING Other REC Limits:N

ONE 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:CADMIUM OXIDE (SARA 302/313) (CERCLA) CAS:1306-19-0 RTECS #:EV1925000 Fraction by Wt: SEE # 1% Other REC Limits:NONE RECOMMENDED OSHA PEL:0.2 MG (CD)/M3 DUST ACGIH TLV:0.01 MG(CD)/M3; 9596

Ingred Name:CADMIUM HYDROXIDE CAS:21041-95-2 Fraction by Wt: SEE # 1% Other REC Limits:NONE RECOMMENDED OSHA PEL:0.05 MG CD/M3 ACGIH TLV:0.05 MG CD/M3

Ingred Name:COBALT (SARA 313); TOTAL PERCENTAGE OF INGREDIENTS 4, 5 AND 6 = 0.5 - 2. CAS:7440-48-4 RTECS #:GF8750000 Fraction by Wt: SEE ING Other REC Limits:NONE RECOMMENDED OSHA PEL:0.1 MG/M3 ACGIH TLV:0.02 MG/M3; A3; 9495

Ingred Name:COBALT (2+) OXIDE CAS:1307-96-6 RTECS #:GG2800000 Fraction by Wt: SEE # 4% Other REC Limits:NONE RECOMMENDED

Ingred Name:COBALT (II) HYDROXIDE CAS:21041-93-0 RTECS #:GG0904500 Fraction by Wt: SEE # 4% Other REC Limits:NONE RECOMMENDED

Ingred Name:LITHIUM HYDROXIDE CAS:1310-65-2 RTECS #: OJ6307070 Fraction by Wt: 0 - 4% Other REC Limits:NONE RECOMMENDED

Ingred Name:NICKEL (SARA 313) (CERCLA); TOTAL PERCENTAGE OF INGREDIENTS 8, 9 AND 10 = 20 - 32. CAS:7440-02-0 RTECS #:QR5950000 Fraction by Wt: SEE ING Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9495

Ingred Name:NICKEL OXIDE CAS:1313-99-1 RTECS #:QR8400000 Fraction by Wt: SEE # 8% Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 AS NI ACGIH TLV:1 MG/M3 AS NI

Ingred Name:NICKEL HYDROXIDE (SARA 31 3) (CERCLA) CAS:12054-48-7 RTECS #:QR7040000 Fraction by Wt: SEE # 8% 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:POTASSIUM HYDROXIDE (CERCLA) CAS:1310-58-3 RTECS #:TT2100000 Fraction by Wt: 0 - 4% 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

Ingred Name:SODIUM HYDROXIDE (CERCLA) CAS:1310-73-2 RTECS #:WB4900000 Fraction by Wt: 0 - 4% Other REC Limits:NONE RECOMMENDED OSHA PEL:2 MG/M3 ACGIH TLV:C 2 MG/M3; 9596 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS 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:TARGET ORGANS:EYES, SKIN, RESPIRATORY, GI TRACTS. ACUTE- BATTERY IS HERMETICALLY SEALED. CONTENTS OF AN

OPEN BATTERY CAN CAUSE IRRITATION OF RESPIRATORY TRACT, SEVERE EYE IRRITATION & BURNS, SKIN IRRI TATION, BURNS & DERMATITIS. INGESTION CAN BE HARMFUL. CAUSES BURNS & POSSIBLE LIVER & KIDNEY INJURY. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:CONTAINS CADMIUM [7440-43-9] WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN. CONTAINS NICKEL.

Effects of Overexposure:NONE. CONTENTS OF AN OPEN BATTERY CAN CAUSE IRRITATION, BURNS, CHEST PAIN, COUGHING,

SWEATING, CHILLS,

SHORTNESS OF BREATH, WEAKNESS, SALIVATION, CHOCKING, NAUSEA, VOMITING, DIARRHEA, ABDOMINAL PAIN, DIZZINESS, UNCONSCIOUSNESS, ALLERGIC PULMONARY ASTHMA

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH AIR. CALL PHYSICIAN. EYES:FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SEE PHYSICIAN. SKIN:W ASH WITH SOAP & WATER. ORAL:IF

BATTERY/ OPEN BATTERY IS INGESTED, DO NOT INDUCEVOMITING OR GIVE FOOD/DRINK. SEEK IMMEDIATE MEDICAL ATTENTION. CALL NATIONAL BATTERY INGESTION HOTLINE FOR ADVICE & FOLLOWUP (202-625-3333) COLLECT, DAY/NIGHT.

Flash Point:NONE Lower Limits:NOT GIVEN Upper Limits:NOT GIVEN Extinguishing Media:USE MELT-X (GRAPHITE BASE), SAND, DRY GROUND DOLOMITE OR SODA ASH FOR NICKEL-CADMIUM FI

RE. WATER FORMS HYDROGEN GAS.
Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED
SELF-CONTAINED BREATHING APPARATUS. Unusual Fire/Explosion Hazard:CADMIUM AND NICKEL FUMES ARE TOXIC AND
CAN CAUSE DEATH.
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Spill Release Procedures: BATTERY AND CELL CASES WILL NORMALLY CONTAIN MATERIALS OF CONCERN. USE INDUSTRIAL ABSORBENT TO COLLECT LIQUID ELECTROLYTE. WEAR GLOVES. NEUTRALIZE WITH CITRIC ACID.
Neutralizing Agent:CITRIC ACID
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 Handling and Storage Precautions:STORE IN COOL PLACE, AWAY FROM INCOMPATIBLE MATERIALS. AVOID BREAKING, CRUSHING OR OTHERWISE DESTROYING THE PHYSICAL INTEGRITY OF THE CELL OR BATTERY. Other Precautions:DO NOT INCINERATE. DO NOT TOUCH BROKEN OR LEAKING BATTERIES. WASH THOROUGHLY AFTER HANDLING. AVOID BREATHING FUMES OR DUST. KEEP OUT OF REACH OF SMALL CHILDREN. DO NOT OPEN BATTERY . DO
NOT OBSTRUCT SA FETY RELEASE VENTS ON BATTERIES.
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Respiratory Protection: USE NIOSH APPROVED MIST OR DUST MASK WHEN HANDLING THE LIQUID IN THE BATTERY. WEAR RESPIRATORY PROTECTION IF TLV EXCEEDED.
Ventilation:USE ADEQUATE LOCAL EXHAUST VENTILATION WHEN HANDLING THE LIQUID IN THE BATTERY OR FUMES PRESENT. Protective Gloves:NEOPRENE, NITRILE FOR LEAKERS
Eye Protection:SAFETY GOGGLES FOR LEAKERS/OPEN BATTERY Ot
her Protective Equipment:EYE WASH STATION, QUICK DRENCH SHOWER AND IMPERVIOUS CLOTHING
Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING.
Supplemental Safety and Health NONE SPECIFIED BY MANUFACTURER.
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HCC:B1 NRC/State Lic Num:NOT RELEVANT Boiling Pt:B.P. Text:NOT GIVEN Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN Decomp Temp:Decomp Text:NOT GIVEN Vap

or Pres:NOT GIVEN Vapor Density:NOT GIVEN Spec Gravity:NOT RELEVANT Viscosity:NOT RELEVANT Evaporation Rate & amp; Reference:NOT RELEVANT Solubility in Water:NOT RELEVANT Appearance and Odor:BATTERY - NO ODOR

Stability Indicator/Materials to Avoid:YES

ELECTROLYTE WILL REACT WITH ALUMINUM, ZINC, TIN, ACIDS, CHLORINATED AND AROMATIC HYDROCARBONS, NITROCARBONS, HALOCARBON. Stability Condition to Avoid:EXCESSIVE HEAT, FIRE Haza rdous Decomposition Products:POTASSIUM HYDROXIDE, NICKEL, CADMILIM

rdous Decomposition Products:POTASSIUM HYDROXIDE, NICKEL, CADMIUM, CADMIUM OXIDE, NICKEL OXIDE, COBALT OXIDE

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. THIS IS HAZARDOUS WASTE D006.

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