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ENERGIZER POWER SYSTEMS -- ENERGIZER RECHARGABLE POWER SYSTEMS BATTERY -- 6140-01-400-2902

Product ID: ENERGIZER RECHARGABLE POWER SYSTEMS BATTERY MSDS Date:08/03/1995 FSC:6140 NIIN:01-400-2902 MSDS Number: CGLHN === Responsible Party === Company Name: ENERGIZER POWER SYSTEMS Address: US HIGHWAY 441N City:ALACHUA State:FL ZIP:32615 Country: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 Company Name: ENERGIZER POWER SYSTEMS (216-835-7368) Box:UNKNOW CAGE:ENEPS Company Name: ROCKWELL INTL CORP COLLINS AVIONICS & COMM DIV Address:350 COLLINS RD NE Box:7922 City:CEDAR RAPIDS State:IA ZIP:52498 Country:US CAGE:13499

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

Ingred Name:CADMIUM (SARA 313) (CERCLA);INGREDIENTS 1+2+3=13-22% 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;9495 EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM OXIDE (SARA 302/313) (CERCLA);INGREDIENTS 1+2+3=13-22% CAS:1306-19-0 RTECS #:EV1925000 Other REC Limits:NONE RECOMMENDED OSHA PEL:0.2 MG (CD)/M3 DUST ACGIH TLV:0.01 MG(CD)/M3; 9495

Ingred Name:CADMIU M HYDROXIDE;INGREDIENTS 1+2+3=13-22% 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 (SARA 313);INGREDIENTS 4+5+6=0.5-2% CAS:7440-48-4 RTECS #:GF8750000 Other REC Limits:NONE RECOMMENDED OSHA PEL:0.1 MG/M3 ACGIH TLV:0.02 MG/M3; A3; 9495

Ingred Name:COBALT 2+ OXIDE;INGREDIENTS 4+5+6=0.5-2% CAS:1307-96-6 RTECS #:GG2800000 Other REC Limits:NONE RECOMMENDED

Ingred Name:COBALT HYDROXIDE;INGREDIENTS 4+5+6=0.5-2% CAS:21041-93-0 RTECS #:GG0904500 Other REC Limits:NONE RECOMMENDED OSHA PEL:0.05 MG/M3 (CO) ACGIH TLV:0.05 MG/M3 (CO)

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);INGREDIENTS 8+9+10=20-32% CAS:7440-02-0 RTECS #:QR5950000 Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9495

Ingred Name:NICKEL OXIDE;INGREDIENTS 8+9+10=20-32% CAS:1313-99-1 RTECS #:QR8400000 Other REC Limits:NONE RECOM MENDED OSHA PEL:1 MG/M3 AS NI ACGIH TLV:1 MG/M3 AS NI

Ingred Name:NICKEL HYDROXIDE (SARA 313) (CERCLA);INGREDIENTS 8+9+10=20-32% CAS:12054-48-7 RTECS #:QR7040000 Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG(NI)/M3 ACGIH TLV:0.1 MG(NI)/M3; 9495 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; 9495 EPA Rpt Qty:1000 LBS DOT Rpt Qty:100 0 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; 9495 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES Health Hazards Acute and Chronic:ARTICLE EYES:CONTENTS MAY CAUSE SEVERE IRRITATION OR BURNS.SKIN: CONTENTS MAY CAUSE CHEMICAL BURNS AND SENSITIZATION.INGEST: CONTENTS MAY CAUSE GI TRACT BURNS.CADMIUM IS TOXIC AND MAY DAMAGE LIVER AND K IDNEYS. INHAL: CONTENTS MAY CAUSE METAL FUME FEVER AND NICKEL HYPERSENSITIVITY (PULMONARY ASTHMA). Explanation of Carcinogenicity: CONTAINS CADMIUM [7440-43-9] WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA.NICKEL AND COBALT LISTED NTP AND IARC Effects of Overexposure: INGEST: SALIVATION, CHOKING, NAUSEA, PERSISTENT VOMITING, ABDOMINAL PAIN, DIZZINESS, FAINTNESS, UNCONSCIOUSNESS. SKIN: CONTACT DERMATITIS. Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER. First Aid:SKIN:REMOVE CONTAMINATED CLOTHING:WASH WITH SOAP AND WATER.SEEK IMMEDIATE MEDICAL ATTENTION FOR CHEMICAL BURNS.EYES: FLUSH WITH WATER FOR 15 MINUTES.SEEK MEDICAL ATTENTION.INHAL:REMOVE TO FRESH AIR.GI VE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED.INGEST:DO NOT INDUCE V OMITING.GET PROMPT QUALIFIED MEDICAL ATTENTION.CALL THE NATIONAL BATTERY HOTLINE;202-625-3333. Flash Point:NONE Extinguishing Media: USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures: USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.COOL FIRE EXPOSED CONTAINERS WITH WATER FOG.

Unusual Fire/Explosion Hazard: FIRE CONDITIONS MAY EVOLVE TOXIC FUMES.

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I Release Measures ===========

Spill Release Procedures:SOAK UP SPILLED LIQUID WITH NON-COMBUSTIBLE INERT ADSORBANT(EG.CLAY);PLACE COLLECTED MATERIAL IN AN APPROPRIATE CONTAINER FOR DISPOSAL;CLEAN SPILL AREA. Neutralizing Agent:NOT REPORTED.

Handling and Storage Precautions: STORE IN A COOL, DRY, WELL-VENTILATED PLACE. Other Precautions: AVOID SHORT CIRCUITING (THIS BATTERY DELIVERS VERY HIGH SHORT CIRCUIT CURRENT).DO NOT MIX WITH OTHER BATTERY TYPES. Respiratory Protection:NOT NEEDED IN NORMAL SERVICE. Ventilation:NOT NEEDED IN NORMAL SERVICE. Protective Gloves: NEOPRENE OR NBR FOR LEAKERS. Eye Protection: SAFETY GLASSES W/SIDESHIELDS FOR LEAKERS Other Protective Equipment: PROTECTIVE CLOTHING, AS NEEDED. PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER. Work Hygienic Practices: USE REASONABLE CARE IN HANDLING THIS PRODUCT. WASH HANDS AFTER USE AND BEFORE EATING. Supplemental Safety and Health NONE HCC:N1 Solubility in Water: INSOLUBLE Appearance and Odor:C-TYPE,SEALED BATTERY Stability Indicator/Materials to Avoid:YES NONE SPECIFIED BY MANUFACTURER. Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER. Hazardous Decomposition Products:NICKEL,NICKEL OXIDES,CADMIUM,CADMIU OXIDES, COBALT OXIDES.

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Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.RCRA CODE IS D006(CADMIUM).

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