

ENERGIZER POWER SYSTEMS -- ENERGIZER RECHARGABLE POWER SYSTEMS BATTERY --  
6140-01-205-9494

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

Product ID:ENERGIZER RECHARGABLE POWER SYSTEMS BATTERY

MSDS Date:11/29/1994

FSC:6140

NIIN:01-205-9494

MSDS Number: BXWFJ

=== 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

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

Ingred Name:CADMIUM (SARA 313) (CERCLA);INGREDIENTS 1+2+3=13-22%

CAS:7440-43-9

RTECS #:EU9800000

Other REC L

imits: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:CADMIUM 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 #:OJ6

307070

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 RECOMMENDED

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: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; 9495  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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===== Hazards Identification =====

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 KIDNEY  
S.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.

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===== First Aid Measures =====

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.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED.INGEST:DO NOT INDUCE VOMITING.GET PROMPT QUALIFIED MEDICAL ATTENTION.CALL THE NATIONAL BATTERY HOTLINE;202-625-3333.

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===== Fire Fighting Measures =====

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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===== Accidental Release Measures =====

Spill Release Procedures:SOAK UP SPILLED LIQUID WITH NON-COMBUSTIBLE INERT ADSORBANT(EG.CLAY);PLACE COL

LECTED MATERIAL IN AN APPROPRIATE  
CONTAINER FOR DISPOSAL;CLEAN SPILL AREA.  
Neutralizing Agent:NOT REPORTED.

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Handling and Storage  
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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.

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Exposure Controls/Personal Protection  
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Respiratory Protection:NOT NEED  
ED 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

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Physical/Chemical Properties  
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HCC:N1

Solubility in Water:INSOLUBLE

Appearance and Odor:C-TYPE,SEALED BATTERY

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Stability and Reactivity Data  
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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,CADMIUM  
OXIDES,COBALT OXIDES.

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Disposal Considerations  
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Waste Disposal Methods:DISPOSE OF IN ACCORDANCE W

WITH FEDERAL, STATE AND  
LOCAL REGULATIONS. RCRA CODE IS D006 (CADMIUM).

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