

ENERGIZER POWER SYSTEMS,DIV OF EVEREADY BAT CO INC -- ENERGIZER RECHARGEABLE  
POWER SYSTEMS BATTERY -- 6140-01-165-2073

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

Product ID:ENERGIZER RECHARGEABLE POWER SYSTEMS BATTERY

MSDS Date:08/03/1995

FSC:6140

NIIN:01-165-2073

MSDS Number: BXXLQ

=== Responsible Party ===

Company Name:ENERGIZER POWER SYSTEMS,DIV OF EVEREADY BAT CO INC

Address:US HIGHWAY 441N

City:ALAC

HUA

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 (FORMALLY GATES ENERGY PRODUCTS  
INC)

Address:US HWY 411 N

Box:147114

City:GAINESVILLE

State:FL

ZIP:32614-7114

Country:US

Phone:904-462-3911

CAGE:19209

Box:U

NKNOW  
CAGE:ENER1

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Composition/Information on Ingredients  
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Ingred Name:CADMIUM (SARA 313) (CERCLA) AS CADMIUM METAL & INGREDIENTS 2,3.  
CAS:7440-43-9  
RTECS #:EU9800000  
Fraction by Wt: 13-22%  
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)  
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; 9495

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) AS COBALT METAL & INGREDIENTS 5 & 6.  
CAS:7440-48-4  
RTECS #:GF8750000  
Fraction by Wt: 0.5-2%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.1 MG/M3  
ACGIH TLV:0.02 MG/M3; A3; 9495

Ingred Name:COBALT OXIDE  
CAS:1307-96-6  
RTECS #:GG2800000  
Fraction by Wt: SEE #4%  
Other REC Limits:

NONE RECOMMENDED

Ingred Name:COBALT HYDROXIDE

CAS:21041-93-0

RTECS #:GG0904500

Fraction by Wt: SEE #4%

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) AS NICKEL METAL AND INGREDIENTS 9 & 10.

CAS:7440-02-0

RTECS #:QR5950000

Fraction by Wt: 20-32%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH T

LV: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 313) (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; 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

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES  
Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES  
Health Hazards Acute and Chronic:EXPO TO INGRED CONTAINED WITHIN OR  
THEIR COMBUSTION PRODUCTS COULD BE HARMFUL.INGEST:HARMFUL.OPN BATT  
CAUSES SERIOUS CHEM BURNS OF MOUTH/ESOPHAGUS/GI TRACT.INHAL:RESP  
IRRIT,METAL FUME FEVER,ALLERGIC P ULM ASTHMA.SKIN:IRRIT/CHEM  
BURNS.SENS,ALLERGIC CONTACT DERM.EYE:SEVER IRRIT,CHEM BURN.  
Explanation of Carcinogenicity:PER MSDS:NICKEL,CADMIUM,NICKEL  
CMPDS,CADMIUM CPMDS,COBA  
LT CMPDS LISTED AS POSSIBLE CARCINOGENS BY  
IARC/NTP/OSHA.  
Effects of Overexposure:INGEST:CHEM BURNS OF MOUTH/ESOPHAGUS/GI  
TRACT.CD:SALIVATION,CHOKING,NAU,PERSISTENT VOMIT,DIARR,ADBOMINAL  
PAIN,DIZZ,FAINTNESS,UNCONSC,POSSIBLE LIVER/KIDNEY INJURY.  
INHAL:RESP IRRIT.CD:METAL FUME FEVER, HYPERSENSITIVITY TO NI CAUSE  
ALLERGIC PULM ASTHMA.SKIN:IRRIT,CHEM BURN.CO/NI/NIOH:SENS,ALLERGIC  
DERM.EYE:IRRIT,CHEM BURN  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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First Aid Measures  
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First Aid:INGEST:DO NOT INDUCE VOMIT OR GIVE FOOD/DRINK.SEEK MED ATTN IMMED.CALL NAT BATT INGEST HOTLINE 202-625-3333(COLLECT,DAY/NIGHTFOR ADVICE/FOLLOWUP. INHAL:PROVIDE FRESH AIR.SEEK MED ATTN. SKIN:REMOVE COT NAMIN CLOTH.WASH SKIN W/SOAP/WATER.CHEMBURN OCCURS/IRRIT PERSIST SEEK MED ATTN. EYE:IMMED FLUSH THOROUGHLY W/WATER FOR @LEAST 15MINS LIFTING EYELIDS TIL NO EVIDENCE OF CHEM REMAINS.SEEK MED ATTN.

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Fire Fighting Measures  
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Extinguishing Media:CO2,DRY CHEM,FOAM MAY BE USED BUT ALSO MAY NOT EXTING BURNING NI-CD BATT;BURNING BATT WILL BURN THEMSELVES OUT.(SUPPLEM)

Fire Fighting Procedures:IN CASE OF FIRE WHERE NI-CD BATT PRESENT FLOOD AREA W/WATER.IF BATT BURNING WATER MAY NOT EXTING BUT COOL ADJ BATT/CNTRL FIRE SPREAD.WEAR SCBA.

Unusual Fire/Explosion Hazard:WHEN WATER USED HYDROGEN GAS WILL BE EVOLVED FORMING EXPLO MIXTURE IN C ONFINED SPACE.BURNING NI-CD BATT CAN PRODUCE TOXIC FUMES INCLUDING NICKEL, NICKEL (SUPPL)

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Accidental Release Measures  
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Spill Release Procedures:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage  
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Handling and Storage Precautions:STORE IN COOL WELL VENTI AREA.DO NOT OBSTRUCT SAFETY RELEASE VENTS.POTTING OF BATT WILL NOT ALLOW CELL VENTING & MAY CAUSE HI PRESSURE RUPTURE.(SUPPL)

Other Precautions

:BATT SHOULDN'T BE OPEN/BURN.INFO CONTAINED W/IN PROVIDED FOR INFO ONLY;BATT IS AN ARICLE & NOT SUBJ TO OSHA HAZ COMM STD REQMTS FOR MSDS.DESIGNED FOR RECHARGE.CHEM SYS:NICKEL-CADMIUM.UNDER NORMAL COND ITIONS OF USE BATT HERMETTICALLY SEALED.

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Exposure Controls/Personal Protection  
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Respiratory Protection:NOT NECESSARY UNDER NORMAL CONDITIONS.

Ventilation:NOT NECESSARY UNDER NORMAL CONDITIONS.

Protective Gloves:NEOPRENE/NAT RUBB IF BATT OPN/LEAK

Eye P

rotection:SAFETY GLASSES W/SIDESHIELD IF OPN/LEAK  
Other Protective Equipment:EYE/GLOVES NOT NECESSARY UNDER NORMAL  
CONDITIONS.

Work Hygienic Practices:BATT SHOULDN'T BE OPND.IF CELL BECOME  
DISASSEMBLED STORE ELECTRODE IN FIREPROOF CABINET AWAY FRM COMBUST.

Supplemental Safety and Health

EXT MEDIA:METL-X(GRAPHITE BASE)DRY SAND,GROUND DOLOMITE,SODA ASH WILL  
EXT BURNING NI-CD BATT;THEY ACT AS SMOTHERING AGENTS. FIRE/EXPLO

HAZ:OXIDES,CADMIUM,CADMIUM OXIDES,COBALT OXIDES. STG/HNDL:CON  
SULT

EVEREADY BATT CO FOR SOLDE/WELD,POTT/SEALING BATT.OBSERVE PROPER  
CHARGING POLARITY.DO NOT OPN BATT.

===== Physical/Chemical Properties =====

HCC:N1

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:ELEVATED TEMPS CAN RESULT IN SHORTENED  
BATT LIFE.AVOID SHORT CIRCUITS SOURCES:

METAL JEWELRY/TABLE

COVERS/BELTS,BATT BULK

Hazardous Decomposition Products:BURNING NICKEL-CADMIUM BATT CAN  
PRODUCE TOXIC FUMES INCLUDING NICKEL,NICKEL OXIDES,CADMIUM,CADMIUM  
OXIDES,COBALT OXIDES.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE IAW ALL APPLICABLE FED/STATE/LOC  
REGS.WHEN GENERATED AS WSTE BATT MAY BE REG BY RCRA:D06(CADMIUM)HAZ  
WSTE.RECYCLING MAY BE AVAILABLE;CONTACT LOC RECYCL OFC OR  
800-8-BATTERY.FED U

NIV WSTE RULE 4CFRPART 273 MAY APPLY.NOT SUBJ  
TO SARA/TITLE III.

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