

ENERGIZER POWER SYSTEM, DIV OF EVEREADY BATTERY -- NICKEL CADMIUM BATTERY --
6140-01-041-0262

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

Product ID:NICKEL CADMIUM BATTERY

MSDS Date:08/03/1995

FSC:6140

NIIN:01-041-0262

MSDS Number: CCHXG

=== Responsible Party ===

Company Name:ENERGIZER POWER SYSTEM, DIV OF EVEREADY BATTERY

Address:US HIGHWAY 441N

City:ALACHUA

State:FL

ZIP:32615

Country:US

Info Phone Num:21

6-835-7368

Emergency Phone Num:216-835-7368

CAGE:EO263

=== Contractor Identification ===

Company Name:BALKAMP INC

Address:2601 S HOLT ROAD

Box:City:INDIANAPOLIS

State:IN

ZIP:46241

Country:US

Phone:317-244-7241

CAGE:70842

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:NAPA, A DIVISION OF LINCOLN AUTOMOTIVE

Address:ONE LINCOLN WAY

Box:City:ST. LOUIS

State:MO

ZIP:63120-15

78
Country:US
Phone:414-255-5520
CAGE:050Q3
Box:UNKNOW
CAGE:ENER1

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Composition/Information on Ingredients
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Ingred Name:CADMIUM (SARA 313) (CERCLA)
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;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: 13-22%
Other REC Limits:NONE RECOMMEN
DED
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: 13-22%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.05 MG CD/M3
ACGIH TLV:0.05 MG CD/M3

Ingred Name:COBALT (SARA 313)
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; 9596

Ingred Name:COBALT (2+) OXIDE
CAS:1307-96-6
RTECS #:GG2800000
Fraction by Wt: 0.5-2%
Other REC Limits:NONE RECOMMEN

DED

Ingred Name:COBALT (II) HYDROXIDE
CAS:21041-93-0
RTECS #:GG0904500
Fraction by Wt: 0.5-2%
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)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 20-32%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9596

Ingred Name:NICKEL OXIDE
CAS:1313-99-1
RTECS #:QR8400000
Fraction by Wt: 20-32%
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: 20-32%
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 L

BS
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

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

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 Chroni
c:TARGET ORGANS:NONE. ACUTE- UNDER
NORMAL CONDITIONS OF USE, NO EXPOSURE TO HAZARDOUS COMPONENTS. IF
INCINERATED, INHALATION OF FUMES MAY CAUSE RESPIRATORY SYSTEMS
IRRITATION. FUMES WILL ALSO IRRITATE E YE TISSUE. IF BROKEN, MAY
CAUSE SKIN BURNS. SWALLOWING IS HARMFUL. CHRONIC- MAY CAUSE KIDNEY
DYSFUNCTION & LUNG INJURY.
Explanation of Carcinogenicity:CONTAINS CADMIUM [7440-43-9] WHICH IS
LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN.
CONTAINS NICKEL.

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ffects of Overexposure:NONE UNDER NORMAL CONDITIONS OF USE. IF LEAKING
OR INCINERATED: IRRITATION OF RESPIRATORY TRACT AND EYES, SKIN
BURNS, CHEST PAIN, COUGHING, SWEATING, CHILLS, SHORTNESS OF BREATH,
WEAKNESS
Medical Cond Aggravated by Exposure:IF INCINERATED: RESPIRATORY
DISORDERS, PROSTATE DISORDERS, LIVER AND KIDNEY DISORDERS, VISION
PROBLEM

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

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMO

VE TO FRESH

AIR. CALL PHYSICIAN. EYES:FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SEE PHYSICIAN. SKIN:WASH 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.

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

Flash Point:NONE

Extinguishing Media:WATER SPRAY, CARBO
N DIOXIDE, FOAM OR DRY CHEMICAL

FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED
CONTAINERS.

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

Spill Release Procedures:BATTERY AND CELL CASES WILL NORMALLY CONTAIN
MATERIALS OF CONCERN. USE INDUSTRIAL ABSORBENT
TO COLLECT POTASSIUM
HYDROXIDE.

Neutralizing Agent:NOT RELEVANT

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===== Handling and Storage =====

Handling and Storage Precautions:STORE IN COOL, DRY PLACE. AVOID
BREAKING, CRUSHING OR OTHERWISE DESTROYING THE PHYSICAL INTEGRITY
OF THE CELL OR BATTERY.

Other Precautions:DO NOT INCINERATE. DO NOT TOUCH BROKEN BATTERIES.
WASH THOROUGHLY AFTER HANDLING. AVOID BREATHING FUMES OR DUST. KEEP
OUT OF REACH OF SMALL CHILDREN.

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===== Exposu
re Controls/Personal Protection =====

Respiratory Protection:USE NIOSH APPROVED MIST OR DUST MASK WHEN
HANDLING BROKEN BATTERIES.

Ventilation:ADEQUATE

Protective Gloves:NEOPRENE, NITRILE FOR BROKEN BATTERIES

Eye Protection:SAFETY GOGGLES RECOMMENDED

Other 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

THE MANUFACTURER STATES THIS BATTERY IS AN ARTICLE AND, AS SUCH, IS NOT SUBJECT TO OSHA HAZARD COMMUNICATION STANDARD REQUIREMENT FOR PREPARATION OF A MATERIAL SAFETY DATA SHEET.

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

HCC:Z5

Appearance and Odor:FIVE AA BATTERIES CONNECTED IN SERIES, NO ODOR

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

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:EXCESSIVE HEAT, FIRE

Hazardous Decomposition Products:TOXIC FUMES OF CADMIUM OXIDE AND NICKEL OXIDE.

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

Waste Disposal Methods:CELLS AND BATTERIES MAY BE RETURNED AT SENDERS EXPENSE TO A PERMITTED TREATMENT, STORAGE, DISPOSAL FACILITY (TSD). DISPOSAL MUST BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. EPA/RCRA#-D006 (CD) MAY APPLY.

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