

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:2

16-835-7368

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:63120-1

578
Country:US
Phone:414-255-5520
CAGE:050Q3
Box:UNKNOW
CAGE:ENER1

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

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 RECOMME
NDED
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 RECOMME

NDED

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%

O

ther 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

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

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===== 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 Chron
ic: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.
Effects 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

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

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REM
OVE 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, CARB

ON 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.

===== 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

===== 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.

===== Exposure 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.

Supplementa

l 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:EXCESS

IVE 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 (TSDF). 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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