

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

===== 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 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%  
Ot  
her 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 Chronic

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 EYE 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.

E

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.

===== 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.

===== 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.

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:EXCESSI

VE 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 LAW S AND REGULATIONS. EPA/RCRA#-D006 (CD) MAY APPLY.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.