

ENERGIZER POWER SYSTEM, DIV OF EVEREADY BATTERY -- NICKEL CADMIUM BATTERY --
6135-01-372-6985

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

Product ID:NICKEL CADMIUM BATTERY

MSDS Date:08/03/1995

FSC:6135

NIIN:01-372-6985

Status Code:A

MSDS Number: CJFDJ

=== Responsible Party ===

Company Name:ENERGIZER POWER SYSTEM, DIV OF EVEREADY BATTERY

Address:US HIGHWAY 441N

City:ALACHUA

State:FL

ZIP:32615

Country:US

In

fo Phone Num:216-835-7368

Emergency Phone Num:216-835-7368

CAGE:EO263

=== Contractor Identification ===

Company Name:ELECTRO PRODUCTS INC DIV OF AUTOMATION TECHNOLOGY INC

Address:1710 HWY 29S

Box:City:CANTONMENT

State:FL

ZIP:32533

Country:US

Phone:850-968-4984

Contract Num:SP0430-98-M-JK07

CAGE:0PAF4

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:EVEREADY BATTERY CO IN

C

Address:25225 DETROIT ROAD

Box:City:WESTLAKE

State:OH

ZIP:44145

Country:US

Phone:440-835-7368

CAGE:66571

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

Ingred Name:CADMIUM (SARA 313) (CERCLA)

CAS:7440-43-9

RTECS #:EU9800000

Minumum % Wt:13.

Maxumum % Wt: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

F

raction by Wt: SEE ING#1%

Other REC Limits:NONE RECOMMENDED

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: SEE ING#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)

CAS:7440-48-4

RTECS #:GF8750000

Minumum % Wt:.5

Maxumum % Wt: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

RT

ECS #:GG2800000
Fraction by Wt: SEE ING#4%
Other REC Limits:NONE RECOMMENDED

Ingred Name:COBALT (II) HYDROXIDE
CAS:21041-93-0
RTECS #:GG0904500
Fraction by Wt: SEE ING#4%
Other REC Limits:NONE RECOMMENDED

Ingred Name:LITHIUM HYDROXIDE
CAS:1310-65-2
RTECS #:OJ6307070
Minumum % Wt:0.
Maxumum % Wt:4.
Other REC Limits:NONE RECOMMENDED

Ingred Name:NICKEL (SARA 313) (CERCLA)
CAS:7440-02-0
RTECS #:QR5950000
Minumum % Wt:20.
Maxumum % Wt:32.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TL
V:1 MG/M3; 9596

Ingred Name:NICKEL OXIDE
CAS:1313-99-1
RTECS #:QR8400000
Fraction by Wt: SEE ING#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 ING#8%
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
Minumum % W

t:0.
Maxumum % Wt: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
Minumum % Wt:0.
Maxumum % Wt: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 =====
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LD50 LC50 Mixture:LD50 (ORAL, RAT): 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:TARGET ORGANS: EYES, SKIN,

RESPIRATORY, AND GASTROINTESTINAL TRACTS. ACUTE - THE BATTERY IS HERMETICALLY SEALED. CONTENTS FROM AN OPEN BATTERY MAY CAUSE SEVERE EYE IRRITATION AND CHEMICAL BURNS, SKIN IRRITATION AND CHEMICAL BURNS. CONTENTSOF AN OPEN BATTERY CAN CAUSE RESPIRATORY IRRITATION. FUMES CAN CAUSE METAL FUME FEVER. MAY CAUSE ALLERGIC PULMO

NARY

ASTHMA. INGESTION CAN BE HARMFUL. CONTENTS OF AN OPEN BATTERY CAN CAUSE SERIOUS CHEMICAL BURNS OF MOUTH, ESOPHAGUS AND GASTROINTESTINAL TRACT AND POSSIBLE LIVER AND KIDNEY INJURY.

CHRONIC - NICKEL POWDER AND CADMIUM COMPOUNDS ARE KNOWN TO CAUSE E CANCER IN HUMAN.

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 O

F USE. IF LEAKING

OR INCINERATED: SEVERE IRRITATION, BURNS, PAIN, COUGHING, SWEATING, CHILLS, SHORTNESS OF BREATH, WEAKNESS, SALIVATION, CHOCKING, NAUSEA, PERSISTANT VOMI TING, DIARRHEA, DIZZINESS, FAINTNESS, UNCONSCIOUSNESS

Medical Cond Aggravated by Exposure:IF INCINERATED: RESPIRATORY DISORDERS, LIVER AND KIDNEY DISORDERS, VISION PROBLEM, SKIN DISEASES

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

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST.

INHALED: REMOVE TO

FRESH AIR. CALL PHYSICIAN. EYES: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES, LIFTING UPPER AND LOWER EYELIDS, UNTIL NO EDIDENCE OF THE CHEMICA L REMAINS. SEE PHYSICIAN. SKIN: REMOVE CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WATER. IF A CHEMICAL BURN OCCURS, SEEK MEDICAL ATTENTION. INGESTION: IF BATTERY OR OPEN BATTERY IS INGESTED, DO NOT INDUCEVOMITING OR GIVE FOOD/DRINK. SEEK IMMEDIATE MEDICAL ATTENTION. CALL NATIONAL BATTERY INGESTION

HOTLINE FOR ADVICE AND FOLLOWUP (202-625-3333) COLLECT, DAY OR NIGHT.

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

Flash Point:NONE

Extinguishing Media:FLOOD THE AREA WITH WATER. WATER MAY NOT EXTINGUISH BATTERIES BUT WILL COOL THE ADJACENT BATTERIES. CO2 AND FOAM EXTINGUISHERS MAY BE USED.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:BURING NICKEL-CADMIUM BATTERIES CAN PRODUCE TOXIC FUMES INCLUDING NICKEL, NICKEL OXIDES, CADMIUM, CADMIUM OXIDES, AND COBALT OXIDES..

===== 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 OTHERWI

SE DESTROYING THE PHYSICAL INTEGRITY OF THE CELL OR BATTERY. ELEVATED TEMPERATURES CAN RESULT IN SHORTENED BATTERY LIFE. DO NOT OBSTRUCT SAFETY RELEASE VENTS ON BATTERIES.

Other Precautions:DO NOT TOUCH BROKEN OR LEAKING BATTERIES. AVOID MECHANICAL OR ELECTRICAL ABUSE. KEEP BATTERIES AWAY FROM SMALL CHILDREN. STORE IN A WELL VENTILATED AREA. DO NOT DISPOSE OF IN FIRE. DO NOT SHORT CIRCUIT. DO NOT USE DIFFERENT TYPES OF BATTERIES IN THE SAME BATTERY ASSEMBLY. DO NOT OPEN BATTERY.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:NOT NECESSARY UNDER NORMAL CONDITIONS.

Ventilation:NOT NECESSARY UNDER NORMAL CONDITIONS.

Protective Gloves:USE NEOPRENE OR NATURAL RUBBER GLOVES IF HANDLING OPEN OR LEAKING BATTERY.

Eye Protection:USE SAFETY GOGGLES WITH SIDE SHIELDS IF HANDLING AN OPEN OR LEAKING BATTERY.

Other Protective Equipment:EYE WASH STATION, QUICK DRENCH SHOWER AND IMPERVIOUS CLOTHING

Work Hygienic Practices:

OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING.

Supplemental Safety and Health

PART NUMBER: 1758-004. 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 . THE BATTERY CELL IS CONTAINED IN A HERMETICALLY SEALED CASE AND NO HAZARDOUS MATERIALS MAY BE RELEASED IN NORMAL USE.

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

HCC:Z7

Appearance and Odor:BATTERIES CONNECTED IN SERIES, NO ODOR. SIX BATTERIES PER ASSEMBLY.

===== 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 (TSDF). DISPOSAL MUST BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAW S AND REGULATIONS. EPA/RCRA#-D006 (CD) MAY APPLY.

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===== Regulatory Information =====

SARA Title III Information:AS AN ARTICLE, THIS BATTERY AND ITS CONTENTS ARE NOT SUBJECT TO REPORTING REQUIREMENTS OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNPW ACT (EPCRA).

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