

ENERGIZER POWER SYSTEMS -- NICKEL CADMIUM BATTERY, ENERGIZER RECHARGEABLE  
POWER SYSTEM -- 6140-01-251-8652

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

Product ID:NICKEL CADMIUM BATTERY, ENERGIZER RECHARGEABLE POWER SYSTEM

MSDS Date:11/29/1994

FSC:6140

NIIN:01-251-8652

Status Code:A

MSDS Number: CKRZM

=== Responsible Party ===

Company Name:ENERGIZER POWER SYSTEMS

Address:US HIGHWAY 411N

City:ALACHUA

State:

FL

ZIP:32615

Country:US

Info Phone Num:216-835-7368

Emergency Phone Num:216-835-7368

CAGE:TO935

=== Contractor Identification ===

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

Company Name:ENERGIZER POWER SYSTEMS DIVISION OF EVEREADY BATTERY CO.  
INC

Address:US HIGHWAY 411N

Box:City:ALACHUA

State:FL

ZIP:32615

Country:US

Phone:216-835-7368

CAGE:TO935

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

Ingred Name:CADMIUM  
CAS:7440-43-9  
RTECS #:EU9800000  
Minumum % Wt:13.  
Maxumum % Wt:22.  
OSHA PEL:SEE 1910.1027  
ACGIH TLV:0.002 MG/M3  
EPA Rpt Qty:10 LBS  
DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM OXIDE  
CAS:1306-19-0  
RTECS #:EV1925000  
Minumum % Wt:13.  
Maxumum % Wt:22.  
OSHA PEL:5 UG/M3 (CD)  
ACGIH TLV:0.002 MG/M3 (R CD)

Ingred Name:CADMIUM HYDROXIDE  
CAS:21041-95-2  
RTECS #:EV1260000  
Minumum % Wt:13.  
Maxumum % Wt:22.  
OSHA PEL:5 UG/M3  
(CD)  
ACGIH TLV:0.002 MG/M3 (R CD)

Ingred Name:COBALT  
CAS:7440-48-4  
RTECS #:GF8750000  
Minumum % Wt:.5  
Maxumum % Wt:2.  
OSHA PEL:0.1 MG/M3  
ACGIH TLV:0.02 MG/M3

Ingred Name:COBALT OXIDE  
CAS:1307-96-6  
RTECS #:GG2800000  
Minumum % Wt:.5  
Maxumum % Wt:2.  
OSHA PEL:0.1 MG/M3 (CO)  
ACGIH TLV:0.02 MG/M3 (CO)

Ingred Name:COBALT HYDROXIDE  
CAS:21041-93-0  
RTECS #:GG0904500  
Minumum % Wt:.5  
Maxumum % Wt:2.  
OSHA PEL:0.1 MG/M3 (CO)  
ACGIH TLV:0.02 MG/M3 (CO)

Ingred Name:LITHIUM HYDROXIDE  
CAS:1310-65-2  
RTECS #:OJ63

07070

Minumum % Wt:0.

Maxumum % Wt:4.

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

LD50 LC50 Mixture:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Reports of Carcinogenicity:NTP:YES IARC:YES

Health Hazards Acute and Chronic:UNDER NORMAL CONDITIONS OF USE, THE BATTERY IS HERMETICALLY SEALED. INGESTION: SWALLOWING A BATTERY CAN BE HARMFUL. CONTENTS OF AN OPEN BATTERY CAN CAUSE SERIOUS CHEMICAL BURNS OF MOUTH, ESOPHAGUS & G ASTROINTESTINAL TRACT. CONTENTS INCLU

DETOXIC CADMIUM & D CADMIUM COMPOUNDS WHICH CAN CAUSE SALIVATION, CHOKING, NAUSEA, PERSISTENT VOMITING, DIARRHEA, ABDOMINAL PAIN, DIZZINESS, FAINTNESS, UNCONSCIOUSNESS & POSSIBLE LIVER & KIDNEY INJURY. INHALATION: CONTENTS OF AN OPEN BATTERY CAN CAUSE RESPIRATORY IRRITATION. SKIN: CONTENTS OF AN OPEN BATTERY CAN CAUSE SKIN IRRITATION &/OR CHEMICAL BURNS.

Explanation of Carcinogenicity:NICKEL, CADMIUM, NICKEL COMPOUNDS, CADMIUM COMPOUNDS, AND COBALT COMPOUNDS ARE LISTED AS POSSIBLE

CARCINOGENS BY IARC OR NTP.

Effects of Overexposure:INGESTION: SWALLOWING A BATTERY CAN BE HARMFUL. CONTENTS OF AN OPEN BATTERY CAN CAUSE SERIOUS CHEMICAL BURNS OF MOUTH, ESOPHAGUS, AND GASTROINTESTINAL TRACT. CONTENTS INCLUDE TOXIC CADMIUM AND CADMIUM COMPOUNDS WHICH CAN CAUSE SALIVATION, CHOKING, NAUSEA, PERSISTENT VOMITING, DIARRHEA, ABDOMINAL PAIN, DIZZINESS, FAINTNESS, UNCONSCIOUSNESS, AND POSSIBLE LIVER AND KIDNEY INJURY. INHALATION: CONTENTS OF AN

OPEN BATTERY CAN CAUSE RESPIRATORY IRRITATION. SKIN: CONTENTS OF AN OPEN BATTERY CAN CAUSE SKIN IRRITATION AND/OR CHEMICAL BURNS.

Medical Cond Aggravated by Exposure:HYPERSENSITIVITY TO NICKEL CAN CAUSE ALLERGIC PULMONARY ASTHMA. COBALT, NICKEL AND NICKEL HYDROXIDE CAN CAUSE SKIN SENSITIZATION AND AN ALLERGIC CONTACT DERMATITIS.

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

First Aid:EYE CONTACT: IMMEDIATELY FLUSH EYES THOROUGHLY WITH WATER FOR  
A

T LEAST 15 MINUTES. SEEK MEDICAL ATTENTION. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WATER. IF A CHEMICAL BURN OCCURS OR IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. INHALATION: PROVIDE FRESH AIR AND SEEK MEDICAL ATTENTION. INGESTION: IF BATTERY OR OPEN BATTERY IS INGESTED, DO NOT INDUCE VOMITING OR GIVE FOOD OR DRINK. SEE MEDICAL ATTENTION IMMEDIATELY. CALL NATIONAL BATTERY INGESTION HOTLINE FOR ADVICE AND FOLLOW-UP (202-625-3333)COLLECT, DAY OR NIGHT.

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

Extinguishing Media:IN CASE OF FIRE, IT IS PERMISSIBLE TO USE ANY CLASS OF EXTINGUISHING MEDIUM ON THESE BATTERIES OR THEIR PACKING MATERIAL. COOL EXTERIOR OF BATTERIES IF EXPOSED TO FIRE.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS.

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

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

Spill Release Procedures:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Neutralizing Agent:NO DATA PROVIDED BY RESPONSIBLE PARTY. DLA-HMIS: DILUTE ACID SOLUTION.

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

Handling and Storage Precautions:STORAGE: STORE IN A COOL, WELL VENTILATED AREA. ELEVATED TEMPERATURES CAN RESULT IN SHORTENED BATTERY LIFE. HANDLING: ACCIDENTAL SHORT CIRCUIT FOR A FEW SECONDS WILL NOT SERIOUSLY AFFECT THE BATTERY. HOWEVER, THIS BATTERY IS CAPABLE OF DELIVERING VERY HIGH SHORT CIRCUIT CURRENTS.

Other Precautions:WARNING: ONLY CHARGE AT SPECIFIED CHARGE RATE. DO NOT OPEN BATTERY, DISPOSE OF IN FIRE, PUT IN BACKWARDS, MIX WITH OTHER BATTERY TYPES OR SHORT CIRCUIT-MAY EXPLODE, LEAK OR GET HOT CAUSING PERSONAL INJURY.

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

Respiratory Pr

rotection:NOT NECESSARY UNDER NORMAL CONDITIONS.

Ventilation:NOT NECESSARY UNDER NORMAL CONDITIONS.

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

Eye Protection:WEAR SAFETY GLASSES WITH SIDE SHIELDS IF HANDLING AN OPEN OR LEAKING BATTERY.

Other Protective Equipment:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Work Hygienic Practices:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Supplemental Safety and Health  
NO DATA PROVIDED BY RESPONSIBLE PARTY.

====

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

HCC:Z5

Appearance and Odor:NO DATA PROVIDED BY RESPONSIBLE PARTY.

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

NO DATA PROVIDED BY RESPONSIBLE PARTY.

Stability Condition to Avoid:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Hazardous Decomposition Products:NO DATA PROVIDED BY RESPONSIBLE PARTY.

===== Toxicological Information =====

Toxicological Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.

===== Ecological Information =====

Ecological:NO DATA PROVIDED BY RESPONSIBLE PARTY.

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

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. THE CONTENTS OF THIS BATTERY, AS A WASTE, MAY BE REGULATED BY THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) AS A D00 6 (CADMIUM) HAZARDOUS WASTE.

===== MSDS Tr

Transport Information =====

Transport Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.

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

SARA Title III Information:AS AN ARTICLE, THIS BATTERY AND ITS  
CONTENTSS ARE NOT SUBJECT TO THE REQUIREMENTS OF THE EMERGENCY  
PLANNING AND COMMUNITY-RIGHT-TO-KNOW.

Federal Regulatory Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.

State Regulatory Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.

=====

===== Other Information =====

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.