

GATES ENERGY PRODUCTS INC -- NICKEL CADMIUM BATTERY BB-600 A/A -- 6140-00-881-6887

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

Product ID:NICKEL CADMIUM BATTERY BB-600 A/A

MSDS Date:07/06/1990

FSC:6140

NIIN:00-881-6887

MSDS Number: BNVBG

=== Responsible Party ===

Company Name:GATES ENERGY PRODUCTS INC

Address:441 HWY N

Box:116

City:GAINESVILLE

State:FL

ZIP:32602

Country:US

Info Phone Num:904-462-3911

Emergency Phone Num:904-462-3911

CAGE:19209

=== Contractor Identifica

tion ===

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:GENERAL ELECTRIC COMPANY

Address:3135 EASTON TURNPIKE

Box:City:FAIRFIELD

State:CT

ZIP:06431

Country:US

Phone:203-254-5400

CAGE:0D426

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

Ingred Name:CADMIUM (SARA III)

CAS:7440-43-9

RTECS #:EU9800000

Other REC Limits:N

ONE SPECIFIED  
OSHA PEL:SEE 1910.1027  
ACGIH TLV:0.01 MG/M3 DUST;9394  
EPA Rpt Qty:10 LBS  
DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:NOT ESTABLISHED.  
ACGIH TLV:NOT ESTABLISHED.

Ingred Name:NICKEL (SARA III)  
CAS:7440-02-0  
RTECS #:QR5950000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9192

Ingred Name:NICKEL HYDROXIDE (SARA III)  
CAS:12054-48-7  
RTECS #:QR7040000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:1 MG NI/M3  
ACGIH TLV:0.1  
MG NI/M3; 9293  
EPA Rpt Qty:10 LBS  
DOT Rpt Qty:10 LBS

Ingred Name:POTASSIUM HYDROXIDE (SARA III)  
CAS:1310-58-3  
RTECS #:TT2100000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:C, 2 MG/M3  
ACGIH TLV:C 2 MG/M3; 9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES  
Health Hazards Acute and Chronic:ACUTE-VAPOR/DUST MAY CAUSE

IRRITATION, DRYNESS OF MOUTH & THROAT, HEADACHE, NAUSEA, DIZZINESS, UPPER RESPIRATORY TRACT/LUNG DAMAGE. MAY BE FATAL. DESTRUCTIVE TO SKIN, EYE, MOUTH, THROAT & STOMACH TISSUES. CHRONIC-LOW LEVEL EXPOSURE OF Cd COMPOUNDS IN AIR MAY CAUSE IRREVERSIBLE LUNG INJURY, KIDNEY DISEASE & OTHER ADVERSE EFFECTS.

Explanation of Carcinogenicity: CADMIUM & NICKEL - REASONABLY ANTICIPATED TO BE A CARCINOGEN (NTP). Ni & Ni COMPOUNDS - CARCINOGENIC TO HUMAN (IARC).

Effects of Overexposure: NONE. IF THE

BATTERY IS LEAKING OR RUPTURED: VAPOR/DUST MAY CAUSE IRRITATION, DRYNESS OF MOUTH & THROAT, HEADACHE, NAUSEA, DIZZINESS, UPPER RESPIRATORY TRACT/LUNG DAMAGE. MAY BE FATAL. DESTRUCTIVE TO SKIN, EYE, MOUTH, THROAT & STOMACH TISSUES.

Medical Condition Aggravated by Exposure: PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS OR IMPAIRED KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

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

First Aid: GET MEDICAL ATTENTION IMMEDIATELY. EYE/SKIN: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. INHALED: REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL: DO NOT INDUCE VOMITING. GET EMERGENCY MEDICAL ATTENTION.

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

Flash Point: NONE

Extinguishing Media: WATER SPRAY, CO<sub>2</sub>, FOAM/DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.

Fire Fighting

Procedures: WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard: CADMIUM, NICKEL AND COBALT FUMES MAY BE EVOLVED IN FIRE SITUATION. CADMIUM FUMES OR VAPORS ARE TOXIC AND CAN CAUSE DEATH.

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

Spill Release Procedures: BATTERY AND CELL CASES WILL NORMALLY CONTAIN MATERIALS OF CONCERN. USE INDU

STRIAL ABSORBENT TO COLLECT LIQUID

POTASSIUM HYDROXIDE.

Neutralizing Agent:WEAK ACID FOR POTASSIUM, NICKEL & CADMIUM HYDROXIDE

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

Handling and Storage Precautions:STORAGE- DO NOT INVERT. AVOID  
BREAKING, CRUSHING OR OTHERWISE DESTROYING THE PHYSICAL INTEGRITY  
OF THE CELL OR BATTERY.

Other Precautions:DO NOT INCINERATE. DO NOT TOUCH BROKEN OR LEAKING  
BATTERIES. WASH THOROUGHLY AFTER HANDLING.

===== Exposur  
e Controls/Personal Protection =====

Respiratory Protection:USE NIOSH APPROVED MIST OR DUST MASK WHEN  
HANDLING THE LIQUID IN THE BATTERY.

Ventilation:USE ADEQUATE LOCAL EXHAUST VENTILATION WHEN HANDLING THE  
LIQUID IN THE BATTERY.

Protective Gloves:NEOPRENE, NITRILE, OR NATURAL RUBBER

Eye Protection:SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

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

Work Hygienic Practices:OBSERVE GOOD PERSONAL HY  
GIENE PRACTICES AND

RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING.

Supplemental Safety and Health

THE MANUFACTURER STATES THAT THIS BATTERY IS AN ARTICLE AND DOES NOT  
REQUIRE ANY MATERIAL SAFETY DATA SHEET.

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

HCC:B1

Appearance and Odor:SEALED METALLIC CYLINDER - ODORLESS

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

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avo

id:EXCESSIVE HEAT OR HUMIDITY

Hazardous Decomposition Products:OXIDES OF CARBON AND METALLIC OXIDES  
UPON BURNING

===== 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.

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ing agencies):

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