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GATES ENERGY PRODUCTS INC -- SEALED LEAD ACID BATTERY CLOSED CYLINDRICAL --  
6140-01-159-2241

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

Product ID:SEALED LEAD ACID BATTERY CLOSED CYLINDRICAL

MSDS Date:03/01/1990

FSC:6140

NIIN:01-159-2241

MSDS Number: BPHSJ

=== Responsible Party ===

Company Name:GATES ENERGY PRODUCTS INC

Address:441 HWY N

Box:861

City:GAINESVILLE

State:FL

ZIP:32602

Country:US

Info Phone Nu

m:904-462-3911 / FAX 904-462-4726

Emergency Phone Num:904-462-3911

CAGE:19209

=== Contractor Identification ===

Company Name:ADVANCED INDUSTRIES INC

Address:415 NORTHCUTT STREET

Box:5666

City:LONGVIEW

State:TX

ZIP:75608

Country:US

Phone:214-236-4101

CAGE:0GA21

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:GATES ENERGY PRODUCTS AFFIL OF GAT

ES RUBBER CO  
Address:1050 S BROADWAY  
Box:5887  
City:DENVER  
State:CO  
ZIP:80217  
Country:US  
CAGE:57053  
Company Name:PRECISION CABLE MFG CO INC  
Address:1290 E I 30  
Box:1448  
City:ROCKWALL  
State:TX  
ZIP:75087-1448  
Country:US  
Phone:972-771-1233  
CAGE:54840

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

Ingred Name:LEAD (SARA III)  
CAS:7439-92-1  
RTECS #:OF7525000  
Fraction by Wt: 69%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.05 MG/M3;1910.1025  
ACGIH TLV:0.15 MG/M3;DUST 9293  
EPA Rpt  
Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:SULFURIC ACID (SARA III)  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: 21%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:NON-HAZARDOUS INGREDIENTS  
Fraction by Wt: 10%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9293

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Repo

Results of Carcinogenicity: NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic: ELECTROLYTE-ACUTE: MAY CAUSE IRRITATION OF RESPIRATORY TRACT, EYES, SKIN OR GI TRACT. MAY CAUSE BURNS OF SKIN, EYES, OR GI TRACT. MAY CAUSE CORNEAL DAMAGE OR BLINDNESS. CHRONIC: TOOTH EROSION, INFLAMMATION OF NOSE, THROAT AND BRONCHIAL TUBES.

Explanation of Carcinogenicity: THE ELECTROLYTE IS NOT LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure: INHALATION: BURNING SENSATION IN NOSE, THROAT

AND LUNGS, COUGHING, WHEEZING, SHORTNESS OF BREATH. EYES: REDNESS, TEARING, BLURRED VISION, BURNS, SEVERE PAIN. SKIN: SEVERE PAIN, BURNS, REDNESS, RASH, ITCHING. INGESTION: BURNS OF MOUTH, THROAT, AND ESOPHAGUS, SEVERE STOMACH PAIN, NAUSEA, VOMITING.

Medical Condition Aggravated by Exposure: PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE RESPIRATORY TRACT OR TEETH MAY BE AT INCREASED RISK FROM EXPOSURE.

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First Aid Measures =====

First Aid: INHALATION: REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET PROMPT MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH PLENTY OF WATER FOR 15 MINUTES. GET MEDICAL ADVICE. INGESTION: DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

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= Fire Fighting Measures =====

Flash Point: NON-FLAMMABLE

Extinguishing Media: USE DRY CHEMICAL, CARBON DIOXIDE

Fire Fighting Procedures: USE OF WATER IN EXTINGUISHING BURNING BATTERIES MAY CAUSE SPATTERING DUE TO THE PRESENCE OF MOLTEN LEAD. WEAR SCBA AND FULL PROTECTIVE GEAR.

Unusual Fire/Explosion Hazard: AFTER ELECTROLYTE IS ADDED AND BATTERY IS BEING CHARGED, HYDROGEN GAS IS PRODUCED. BATTERY MAY EXPLODE IF HYDROGEN GAS TRAPPED INSIDE THE CASE SHOULD IGNITE.

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

Spill Release Procedures: SHOULD A BATTERY BREAK OPEN, ISOLATE AREA. ELECTROLYTE SHOULD BE ABSORBED WITH A NON-ORGANIC TYPE ABSORBENT SUCH AS DRY SAND OR EARTH. AVOID DILUTION WITH WATER. LEAD SPILLED FROM THE BATTERY SHOULD BE VACUUMED, DO NOT SWEEP OR USE COMPRESSED AIR.

Neutralizing Agent: USE SODA ASH OR BAKING SODA TO NEUTRALIZE THE ELECTROLYTE.

===== Handling and Storage =====  
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Handling and Storage Precautions: AVOID THE USE OF UNINSULATED TOOLS. IF THEY ARE REQUIRED, TAKE CARE NOT TO ELECTRICALLY SHORT THE TERMINALS. REMOVE METAL JEWELRY BEFORE SERVICING.

Other Precautions: UNDER NORMAL CONDITIONS OF USE, EXPOSURE TO LEAD OR LEAD CONTAINING COMPOUNDS DOES NOT OCCUR. SHOULD A BATTERY BREAK OPEN AND A LEAD SPILL OCCUR, PRECAUTIONS SHOULD BE TAKEN TO PREVENT LEAD DUST FROM BECOMING AIR BORNE.

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

Respiratory Protection: UNDER NORMAL CONDITIONS OF USE, RESPIRATORY PROTECTION IS NOT REQUIRED. HOWEVER, IF CONDITIONS ARISE THAT REQUIRE THEIR USE, USE ONLY NIOSH/MSHA RESPIRATORS APPROVED FOR DUST, FUME AND MIST.

Ventilation: BATTERY CHARGING AREAS MUST BE ADEQUATELY VENTILATED TO PREVENT HAZARDOUS CONCENTRATIONS OF FLAMMABLE GAS OR ACID MIST.

Protective Gloves: RUBBER GLOVES APPROVED FOR SULFURIC ACID

Eye Protection: CHEMICAL SPLASH GOGGLES AND FACE SHIELD

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE IMPERVIOUS WORK CLOTHING, BOOTS AND APRON AS REQUIRED.

Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

REFER TO WYLE SCIENTIFIC SERVICES, CERTIFICATION TEST REPORT, DATED 16JUL92, STATING THAT THIS BATTERY IS NON-DANGEROUS/NOT REGULATED PER ICAO/IATA PROCEDURES FOR SPECIAL PROVISION A67.

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

HCC:N1

Appearance and Odor:NO ODOR. BATTERY CASE IS SEALED. ELECTROLYTE IS CLEAR OILY LIQUID.

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

Stability Indicator/Materials to Avoid:YES

CONTACT OF ELECTROLYTE WITH ORGANIC MATERIAL AND COMBUSTIBLES, STRONG ALKALIS, REDUCING AGENTS, STRONG OXIDIZING AGENTS

Stability Condition to Avoid:OVERCHARGING, SOURCES OF IGNITION

Hazardous Decomposition Products:

SULFURIC ACID MIST, SULFUR DIOXIDE AND

CARBON MONOXIDE MAY BE RELEASED WHEN ELECTROLYTE DECOMPOSES.

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

Waste Disposal Methods:BOTH ELECTROLYTE AND SCRAP BATTERIES ARE REGULATED HAZARDOUS WASTE. SCRAP BATTERIES CONTAIN MATERIALS WHICH ARE RECYCLABLE AND MUST BE RETURNED TO AUTHORIZED RECYCLER. ELECTROLYTE SHOULD BE HAULED TO A PERMITTED TREATMENT FACILITY.

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