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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 B E 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 Protec
tion =====

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

Oth
er 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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