

GATES ENERGY PRODUCTS, INC. -- SEALED LEAD BATTERY CLOSED CYLINDRICAL,7005-7624-500  
-- 6135-01-227-4372

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

Product ID:SEALED LEAD BATTERY CLOSED CYLINDRICAL,7005-7624-500

MSDS Date:03/01/1990

FSC:6135

NIIN:01-227-4372

MSDS Number: CBSJQ

=== Responsible Party ===

Company Name:GATES ENERGY PRODUCTS, INC.

Address:617 N. RIDGEVIEW DRIVE

City:WARRENSBURG

State:MO

ZIP:64

093

Country:US

Info Phone Num:816-429-2165

Emergency Phone Num:816-429-2165

CAGE:GATES

=== Contractor Identification ===

Company Name:GATES ENERGY PRODUCTS

Address:617 N. RIDGEVIEW DR.

Box:City:WARRENSBURG

State:MO

ZIP:64093

Country:US

Phone:816-429-2253

CAGE:GATES

Company Name:IFR SYSTEM INC

Address:10200 W YORK ST

City:WICHITA

State:KS

ZIP:67215-8935

Country:US

Phone:316-522-4981

CAGE:51190

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

Ingred Name:LEAD (SARA 313) (CERC

LA)  
CAS:7439-92-1  
RTECS #:OF7525000  
Fraction by Wt: 0 - 69%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:SEE 1910.1025  
ACGIH TLV:0.05MG/M3, A3; 9596  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:LEAD OXIDE  
CAS:1309-60-0  
RTECS #:OG0700000  
Fraction by Wt: 0 - 69%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:SULFURIC ACID (SARA 302/313) (CERCLA) ELECTROLYTE  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: 21%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3/3 STEL; 9596  
EPA Rpt  
Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:NON-HAZARDOUS INGREDIENTS  
Fraction by Wt: 10%  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT RELEVANT.  
Routes of Entry: Inhalation:NO Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:IF BATTERY IS PUNCTURED:TARGET  
ORGANS:EYE, SKIN, CNS, LUNG, GI TRACT. ACUTE- LEAD MAY CAUSE GI  
UPSET,  
DIARRHEA, CRAMPING. SULFURIC ACID MAY CAUSE EYE, SKIN &  
RESPIRATORY TRACT BURNS, CORNEAL & LUNG DAMAGE. CHRONIC- LEAD MAY  
CAUSE ANEMIA, KIDNEY & NERVOUS SYSTEM DAMAGE. ACID CAN CAUSE  
BRONCHITIS, EROSION OF TOOTH ENAMEL  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:IF LEAKING OR IN FIRE: GI UPSET, LOSS OF  
APPETITE, DIARRHEA, CONSTIPATION, CRAMPING, LACK OF SLEEP, FATIGUE,  
EYE, SKIN AND RESPIRATORY TRACT IRRITATION, BURNS, CORNEAL AND LUNG  
DAMAGE  
Medical Cond

Aggravated by Exposure:LEAD AND ITS COMPOUNDS CAN AGGRAVATE CHRONIC FORMS OF KIDNEY, LIVER AND NEUROLOGIC DISEASES. CONTACT OF SULFURIC ACID WITH SKIN MAY AGGRAVATE DISEASES SUCH AS ECZEMA. ACID MIST AGGRAVATES LUNG DISEASE

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

First Aid:OBTAIN MEDICAL ATTENTION IN ALL CASES OF EXPOSURE.  
EYES/SKIN:FLUSH WITH WATER FOR 15 MINUTES. KEEP EYELIDS OPEN.  
INHALATION:MOVE TO FRESH AIR. INGESTION:DO NOT INDUCE VOMITING.  
G. IF CONSCIOUS, DRINK LARGE AMOUNT OF WATER OR MILK.

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

Flash Point:NON-FLAMMABLE  
Extinguishing Media:USE CARBON DIOXIDE, SAND, HALON/DRY CHEMICAL. WATER APPLIED TO ELECTROLYTE GENERATES HEAT AND CAUSES IT TO SPATTER.  
Fire Fighting Procedures:WEAR ACID-RESISTANT CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.  
Unusual Fire/Explosion Hazard:  
d:BATTERY CELLS MAY RUPTURE WHEN EXPOSED TO EXCESSIVE HEAT. THIS COULD RESULT IN RELEASE OF CORROSIVE MATERIALS. HYDROGEN GAS, IF PRESENT, IS EXPLOSIVE/FLAMMABLE.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENTS. REMOVE COMBUSTIBLES & IGNITION SOURCES (H<sub>2</sub> MAY BE PRESENT). CONTAIN BY DIKING AND COVER SPILL WITH SODA ASH OR QUICKLIME. MIX WELL. CHECK THAT MIXTURE IS NEUTRAL. COLLECT AND PLACE IN A DRUM. DO NOT FLUSH TO SEWER.  
Neutralizing Agent:SODA ASH (SODIUM CARBONATE), QUICKLIME (CALCIUM OXIDE)

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

Handling and Storage Precautions:STORE NEAR EYEWASH FOUNTAIN AND SAFETY SHOWER. STORAGE AREA SHOULD BE EQUIPPED WITH A DRAIN WHICH CAPTURES SPILLS OF ACID FOR PROPER DISPOSAL.  
Other Precautions:KEEP TERMINALS COVERED. AVOID SHORTING BATTERIES. KEEP OUT OF REACH OF CHILDREN.

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

nal Protection =====

Respiratory Protection:NOT REQUIRED UNDER NORMAL USE. USE  
NIOSH-APPROVED ACID-MIST FILTER RESPIRATOR IF 1 MG/M3 TWA IS  
EXCEEDED (ACID).

Ventilation:ADEQUATE GENERAL VENTILATION

Protective Gloves:RUBBER FOR LEAKER

Eye Protection:SPLASH-PROOF CHEMICAL GOGGLES FOR LEAKER

Other Protective Equipment:EYES WASH STATION AND SAFETY SHOWER. USE  
ACID-PROOF CLOTHING FOR MAJOR SPILLS.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND  
RECOMMEN  
DED PROCEDURES. WASH THOROUGHLY BEFORE EATING,  
DRINKING/SMOKING.

Supplemental Safety and Health

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

HCC:C1

NRC/State Lic Num:NOT RELEVANT

Spec Gravity:NOT RELEVANT

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:NOT RELEVANT

Appearance and Odor:BATTERY CONTAINING SULFURIC ACID AND LEAD.

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

Stability Indicator/Materials

to Avoid:YES

COMBUSTIBLES, ORGANIC MATERIALS, METALS, REDUCING AGENTS, SULFUR  
TRIOXIDE, WATER, BASES

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES, SMOKING, SPARKS,  
SHORTING

Hazardous Decomposition Products:LEAD OXIDE, HYDROGEN, SULFUR DIOXIDE,  
SULFUR TRIOXIDE, METAL FUMES

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

Waste Disposal Methods:DISPOSE AS HAZARDOUS WASTE. OBSERVE ALL FEDERAL,  
STATE AND LOCAL ENVIRONMENTAL REGULATIONS FOR ACID OR LEAD SCR

AP.

SEND BATTERIES TO LEAD SMELTER FOR RECLAMATION FOLLOWING APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

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