STANDARD INDUSTRIES -- LEAD ACID BATTERY -- 6140-00-984-0147

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

Product ID:LEAD ACID BATTERY
MSDS Date:11/01/1989
FSC:6140
NIIN:00-984-0147
MSDS Number: BJZHF
=== Responsible Party ===
Company Name:STANDARD INDUSTRIES
Box:27500
City:SAN ANTONIO
State:TX
ZIP:78227
Country:US
Info Phone Num:512-623-3131
Emergency Phone Num:512-623-3131
Preparer's Name:ILLEGIBLE SIGNAT
URE
CAGE:9H590
=== Contractor Identification ===
Company Name:BATTERY OUTLET INC
Address:1608 CAMPOSTELLA RD
Box:City:CHESAPEAKE
State:VA
ZIP:23324
Country:US
Phone:757-545-4442
CAGE:0FGN2
Company Name:STANDARD INDUSTRIES
Box:27500
City:SAN ANTONIO
State:TX
ZIP:78227
Country:US
Phone:512-623-3131
CAGE:9H590

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

Ingred Name:SULFURIC ACID (SARA III)
CAS:7664-93-9
RTECS #:WS5600000
Fraction by Wt: 35%
Other REC Limits:NONE SPECIFIE

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OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:LEAD (SARA III)
CAS:7439-92-1
RTECS #:OF7525000
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.05 MG/M3;1910.1025
ACGIH TLV:0.15 MG/M3;DUST 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY (SARA III)
CAS:7440-36-0
RTECS #:CC4025000
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.5 MG/M3
ACGIH TLV:0.5 MG SB/M3; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

========== Hazards Identi
fication ==========

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE:BURNS,SEVERE IRRITATION OF SKIN,EYES,MOUTH,THROAT,ESOPHAGUS AND STOMACH;INFLAMMATION OF BRONCHIAL MEMBRANES. CHRONIC:EROSION OF TEETH,INFLAMMATION OF NOSE,THROAT AND BRONCHIAL TUBES.
Explanation of Carcinogenicity:LEAD IS LISTED UNDER NTP AND IARC.
Effects of Overexposure:COUGH,INCREASED RESPIRATORY

RATE,STINGING,BURNING SENSATION ON SKIN,EYE IRRITATION,DISCOLORATION OF TEETH.
Medical Cond Aggravated by Exposure:EXPOSURE TO MISTS MAY CAUSE LUNG DAMAGE AND AGGRAVATE PULMONARY CONDITIONS.

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

First Aid:EYES/SKIN:FLUSH WITH PLENTY OF WATER.SEE DOCTOR IMMEDIATELY.REMOVE CONTAMINATED CLOTHING AND SHOES. INHALATION:REMOVE TO FRESH AIR.GIVE OXYGEN/CPR IF NEEDED.SEE DOCTOR. INGESTION:DO NOT INDUCE VOMIT. GIVE

MILK OR WATER,FOLLOWED
BY 2 OUNCESOF MILK OF MAGNESIA (NO CARBONATES).SEE DOCTOR IMMEDIATELY.

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

Extinguishing Media:USE CARBON DIOXIDE, FOAM, OR DRY CHEMICAL. AVOID USE OF WATER WHERE DANGER OF SPREADING EXISTS.
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.
Unusual Fire/Explo
sion Hazard:CHARGING BATTERIES MAY GENERATE HYDROGEN WHICH IS FLAMMABLE AND EXPLOSIVE. HYDROGEN MAY ALSO BE LIBERATED BY THE ACTION WITH METALS.

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

Spill Release Procedures:WEAR APPROPIATE PROTECTIVE EQUIPMENT.DILUTE CAUTIOUSLY WITH WATER.COVER WITH SODA ASH OR QUICKLIME.SCOOP UP AND PLACE IN APPROPIATE DISPOSAL CONTAINER.
Neutralizing Agent:SODA ASH (SODIUM CARBONATE) OR QUICKLIME (CALCIUM OXIDE).

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

Handling and Storage Precautions:STORE AWAY FROM IGNITION SOURCES AND COMBUSTIBLE MATERIALS.AVOID CONTACT WITH ORGANIC MATERIALS.
Other Precautions:KEEP TERMINALS COVERED IN PLASTIC CASE.AVOID SHORTING BATTERIES.

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

Respiratory Protection:NONE NORMALLY REQUIRED. NIOSH/MSHA-APPROVED CARTRIDGE RESPIRATOR FOR ACIDS OR FULL FACE MASK AS APPROPIATE FOR EXPOSURE
OF CONCERN WHEN TLV IS EXCEEDED.
Ventilation:GENERAL (MECHANICAL) VENTILATION. LOCAL EXHAUST IN CONFINED AREAS.
Protective Gloves:RUBBER
Eye Protection:GOGGLES
Other Protective Equipment:RUBBER APRON AND BOOTS.EYES WASH STATION AND SAFETY SHOWER.
Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.
Supplemental Safety and Health
THIS MSDS IS FOR ACID IN BATTERY.ADDITIONAL HAZARDS ASSOCIATED WITH THE LEAD CONTAINED IN THE BATTERY PLATES MAY BE PRESENT AT TIME OF DISPOSAL.

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

HCC:Z4
Boiling Pt:B.P. Text:230F,110C
Vapor Pres:11.8
Vapor Density:3.4
Spec Gravity:1.265
pH:ACID
Solubility in Water:COMPLETE
Appearance and Odor:COLORLESS TO CLOUDY LIQUID WITH SLIGHT ACIDIC ODOR.

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

Stability Indicator/Materials to Avoid:YES
COMBUSTIBLE MATERIALS, STRONG REDUCING AGENTS, MOST METALS, CARBIDES, ORGANIC MATERIALS, CHLORATES.
Stability Condit
ion to Avoid:AVOID SMOKING, OPEN FLAMES AND OTHER SOURCES OF IGNITION
Hazardous Decomposition Products:SULFURIC ACID FUMES,SULFUR DIOXIDE,SULFUR TRIOXIDE,CARBON MONOXIDE,HYDROGEN GAS.

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

Waste Disposal Methods:CONSULT YOUR LOCAL ENVIRONMENTAL OFFICER. DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL ENVIRONMENTAL REGUALTIONS.