

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

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Hazards Identification =====

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.

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

===== 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 APPROPRIATE 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.

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