

STANDARD INDUSTRIES -- LEAD/ACID BATTERY -- 6140-00-538-9986

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Product Identification  
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Product ID:LEAD/ACID BATTERY

MSDS Date:06/01/1995

FSC:6140

NIIN:00-538-9986

MSDS Number: CBRZS

=== Responsible Party ===

Company Name:STANDARD INDUSTRIES

Address:NELSON RD AT RELIABLE DR

Box:27500

City:SAN ANTONIO

State:TX

ZIP:78227-0500

Country:US

Preparer's Name:H.P. BLANK

CAGE:32571

=== Contractor I

dentification ===

Company Name:STANDARD INDUSTRIES

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Composition/Information on Ingredients  
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Ingred Name:LEAD (SARA 313) (CERCLA) (GRID SPONGE LEAD)

CAS:7439-92-1

RTECS #:OF7525000

Fraction by Wt: NA

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 SULFATE (SARA 313) (CERCLA

) (ANGLISTE)  
CAS:7446-14-2  
RTECS #:OG4375000  
Fraction by Wt: NA  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:SEE 1910.1025  
ACGIH TLV:0.15 MG(PB)/M3; 9596  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

Ingred Name:SULFURIC ACID (SARA 302/313) (CERCLA) (10-30%) (BATTERY  
ACID)  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: NA  
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:LEAD OXIDE (LEAD PEROXIDE)  
CAS:1309-60-0  
RTECS #:OG0700000  
Fraction by Wt: NA  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:ACID SPILLAGE FROM BATT IN CONFINED  
AREAS MAY LEAD TO OVEREXPO FROM SULFURIC ACID MIST INHAL.SULFURIC  
ACID MAY CAUSE IRRITATIVE CONTACT DERM.SKIN ABSORPTIO  
N NOT  
SIGNIFICANT ROUTE OF ENTRY.SULFURIC ACID MIST/LIQ CAN IRRIT  
EYES.HANDS CONTAMIN BY CONTACT W/INTERNAL BATT COMPONENTS CAN  
CAUSE INGEST OF LEAD/LEAD (SUPPLE)  
Explanation of Carcinogenicity:PER MSDS:MATL/COMPO HAVE BEEN TESTED FOR  
ABILITY TO CAUSE CANCER;RESULTS LISTED BY IARC.THERE'S INSUFF  
EVIDENCE TO (SUP)  
Effects of Overexposure:ACUTE:GI UPSET-LOSS OF APPETITE,DIARR &/OR  
CONSTIPATION W/CRAMPING,DIFFI IN SLEEPING,FTG.ACID:SKIN  
IRRIT,CORNEAL DMG OF EYE,MUC MEM

B OF EYE/UPPER RESP SYS INCLUDING

LUNGS IRRIT.CHRONIC:PB/PB CMPDS:ANE MIA,KIDNEY/CNS DMG,REPRODUCT  
SYS DMG,AFFECT DEVELOPING FETUSES,SCARRING OF CORNEA,CHRONIC  
BRONCHITIS,TOOTH EROSION.

Medical Cond Aggravated by Exposure:INORGANIC LEAD & ITS CMPDS CAN  
AGGRAVATE CHRONIC FORMS OF KIDNEY, LIVER, & NEUROLOGIC DISEASES.  
CONTACT OF SULFURIC ACID W/SKIN MAY AGGRAVATE SKIN DISEASES SUCH AS  
ECZEMA & CONTACT DERMATITS.

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===== First Aid Measures =====  
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First Aid:INHAL:REMOVE FROM EXPO.CONSULT PHYSICIAN IF ANY OF ACUTE  
EFFECTS LISTED ABOVE DEVELOP.SKIN:WASH THOROUGHLY W/SOAP/WATER.ACID  
SPLASHED ON CLOTH REMOVE;ON SHOES REMOVE IMMED.EYE:IMMED RINSE  
W/COOL RUNNING WATER FOR @LEASAT 15MINS.SEEK MED ATTN AFT  
RINSING.INGEST:LEAD/LEAD CMPDS:CONSULT PHYSICIAN.SULFURIC ACID:DO  
NOTO INDUCE VOMIT.REFER TO PHYSICIAN IMMED.

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===== Fire Fighting Measures =====  
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Flash Point:NA

Autoignition Temp:A

Autoignition Temp Text:NP

Lower Limits:NA

Upper Limits:NA

Extinguishing Media:DRY CHEMICAL, FOAM, CO2.

Fire Fighting Procedures:USE POSITIVE PRESSURE, SELF-CONTAINED  
BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:HYDROGEN/OXY GASES PRODUCED IN CELL  
DURING NORMAL BATT OPERATION.THESE GASES ENTER AIR THRU VENT  
CAPS.TO AVOID CHANCE OF FIRE/EXPLO KEEP SPARKS/IGN SOURCES AWAY

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===== Accidental Release Measures =====  
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Spill Release Procedures:REMOVE CONBUST M

ATL/IGN SOURCES.CONTAIN/DIKE

W/SODA ASH(SODIUM CARBONATE)/QUICKLIME(CALCIUM OXIDE).COVER  
W/EITHER CHEM.MIX WELL.MAKE CERTAIN MIX IS NEUTRA.COLLECT  
RESIDUE;PLACE IN DR/SUITABLE CNTNR;DISPO AS HAZ WASTE.WEAR ACID  
RESIST BOOT,CHEM (SUPP)

Neutralizing Agent:SODA ASH (SODIUM CARBONATE) OR QUICKLIME (CALCIUM  
OXIDE).

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===== Handling and Storage =====  
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Handling and Storage Precautions:STORE LEAD/ACID BATT W/ADEQUATE  
VENTILATION.MAKE CERTAIN VEN

T CAPS ARE ON TIGHTLY.PLACE MIN OF  
2LAYERS OF CORRUGATED CARDBOARD BETWEEN LAYERS OF BATT.  
Other Precautions:STACK IN TRAILER STACK NO MORE THAN 3 LAYERS HIGH.USE  
BATT CARRIER TO LIFT BATT/PLACE HANDS @OPPOSITE CORNERS TO AVOID  
SPILLING ACID THRU VENTS.AVOID CONTACT W/INTERN BATT COMPO.STORAGE  
AREA W/DRAIN-C APTURE CAPACITY/SAF SHOWER/EYEWASH.

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

Respiratory Protection:NONE REQUIRED.

Ventilation:NONE SPECIFIED BY  
MANUFACTURER.

Protective Gloves:VINYL COATED,PVC,GAUNTLET TYP W/ROUGH FI

Eye Protection:CHEM SPLASH GOGG,FCSHIELD W/SAF GLASSES.

Other Protective Equipment:SAF SHOES WORN W/RUBB/NEOPRENE  
BOOTS/STEEL-LAD RUBB/NEOPRENE BOOTS WORN OVER SOCKS.EYEWASH  
FOUNT,SAF SHOWER.

Work Hygienic Practices:DON'T WEAR CONTAMIN CLOTH AGAIN TIL CLEANED;ON  
SHOES DISCARD-ACID CAN'T BE REMOVED FROM LEATHER.

Supplemental Safety and Health

INCOMPAT:MATLS,CHLORATES,NITRATES,PICRATES,FULMINATES. HEALTH HAZ:CMPS

IF HANDS NOT WASHED PRIOR TO EAT/DRINK/SMOKE. CANC:LEAD CAN/CAN'T  
CAUSE CANCER. SPILL:SPLASH GOGG,FCSHIELD,ACID RESIST GLOVES.DO N'T  
RELEASE UNNEUTRALIZED ACID.

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

HCC:C1

Boiling Pt:B.P. Text:NA

Melt/Freeze Pt:M.P/F.P Text:NA

Decomp Temp:Decomp Text:NP

Vapor Pres:NA

Vapor Density:NA

Spec Gravity:NA

pH:NP

Viscosity:NP

Evaporation Rate & Reference:NA

Solubility in Water:NA

Appearance and Odor:OBJ-TRANSPARENT-OPAQU

E CASE,SEALED COVER W/SIDE/TOP  
TERMINALS,VENT CAP,ODORLESS  
Percent Volatiles by Volume:NA  
Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES  
PB/PB CMPDS:K,CARBIDES,SULFIDES,PEROXIDES,P,S.SULFURIC ACID:COMBUST  
MATLS,STRONG REDUCING AGENTS,MOST METALS,ORG (SUPPL)  
Stability Condition to Avoid:SPARKS & OTHER SOURCES OF IGNITION.  
Hazardous Decomposition Products:PB/PB CMPDS:OXIDES OF LEAD & SULFUR.  
SULFURIC AC  
ID:HYDROGEN, SULFUR DIOXIDES, SULFUR TRIOXIDE.

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

Waste Disposal Methods:ACID:NEUTRALIZE AS ABOVE FOR SPILL;COLLECT  
RESIDUE;PLACE IN DRM/SUITABLE CNTNR.DISPO OF HAZ WASTE.DO NTO FLUSH  
LEAD CONTAMIN ACID TO SEWER.BATT:SEND TO LEAD SMELTER FOR  
RECLAMATION FOLLOWING APPLICABLE FED/STATE/LOC REGS.

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