

TROJAN BATTERY CO -- LEAD/ACID STORAGE BATTERY -- 6140-01-337-0210

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Product Identification  
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Product ID:LEAD/ACID STORAGE BATTERY

MSDS Date:05/28/1995

FSC:6140

NIIN:01-337-0210

MSDS Number: CBTHR

=== Responsible Party ===

Company Name:TROJAN BATTERY CO

Address:12380 CLARK ST

City:SANTA FE SPRINGS

State:CA

ZIP:90670-3804

Country:US

Info Phone Num:213-946-8381/714-521-8215

Emergency Phone

Num:213-946-8381/800-424-9300(CHEMTREC)

Preparer's Name:JOHN BRYSON

CAGE:94598

=== Contractor Identification ===

Company Name:CELL ENERGY INC

Address:3190-B ORANGE GROVE AVE

Box:City:NORTH HIGHLANDS

State:CA

ZIP:95660-5706

Country:US

Phone:916-484-7974

CAGE:1U269

Company Name:TROJAN BATTERY CO

Address:12380 CLARK ST

Box:City:SANTA FE SPRINGS

State:CA

ZIP:90670

Country:US

Phone:562-946 8381 / 800-423-6569

CAGE:94598

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Composition/Information on Ingredients  
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Ingred Nam

e:SULFURIC ACID (SARA 302/313) (CERCLA)  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: 10-38%  
Other REC Limits:NONE SPECIFIED  
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 (SARA 313) (CERCLA)  
CAS:7439-92-1  
RTECS #:OF7525000  
Fraction by Wt: 60-97%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:SEE 1910.1025  
ACGIH TLV:0.05MG/M3, A3; 9596  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY (SARA 313) (CERCLA)  
CAS:7440-36-0  
RTECS #:CC40250  
00  
Fraction by Wt: 1.5-6%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.5 MG/M3  
ACGIH TLV:0.5 MG (SB)/M3; 9596  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC (SARA 313) (CERCLA)  
CAS:7440-38-2  
RTECS #:CG0525000  
Fraction by Wt: < 1%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:SEE 1910.1018  
ACGIH TLV:0.01 MG/M3, A1; 9596  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:TIN  
CAS:7440-31-5  
RTECS #:XP7320000  
Fraction by Wt: < 0.3%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/

M3; 9596

Ingred Name:CALCIUM, METAL

CAS:7440-70-2

RTECS #:EV8040000

Fraction by Wt: < 0.15%

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACID CAN CAUSE IRRITATION OF EYES,  
NOSE AND THROAT. BREATHING MIST PRODUCES RESPIRATORY DIFFICULTY,  
C

ONTACT WITH SKIN AND EYES CAUSES IRRITATION AND SKIN BURNS.  
REPEATED CONTACT WITH SULFURIC ACID MAY CAUSE DRYING OF  
SKIN/DERMATITIS. PROLONGED INHALATION OF A MIST OF SULFURIC ACID  
CAN CAUSE INFLAMMATION OF RESPIRATORY

Explanation of Carcinogenicity:LISTED ON PROPOSITION 65 AND EPA CAG AS  
CARCINOGEN OR POTENTIAL CARCINOGEN.

Effects of Overexposure:EYE IRRITATION, NOSE/THROAT IRRITATION,  
RESPIRATORY DIFFICULTY, SKIN BURNS, EYE BURNS, DERMATITIS,  
RESPIRATORY TRACT INFLAMMA  
TION, CHRONIC BRONCHITIS, EROSION OF  
TEETH ENAMEL.

Medical Cond Aggravated by Exposure:SULFURIC ACID MIST CAUSE COUGHING  
AND WILL BURN EYES AND SKIN.

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

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

Flash Point:NONE

Lower Limits:4.0(HYDROGN)

Upper Limits:75(HYDROGEN)

Extinguishing Media:USE CARBON DIOXIDE OR DRY CHEMICAL.

Fire Fighting Procedures:NONFLAMMABLE. USE STANDARD FIREFIGHTING  
PROCEDURES FOR SURROUNDING MATERIALS IN THE FIRE. COOL EXTERIOR OF  
BATTERY TO PREVENT RUPTURE.

Unusual Fire/Explosion Hazard:HYDROGEN GAS AND SULFURIC ACID VAP

ORS ARE  
GENERATED UPON OVERCHARGE. VENTILATE AREA.

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

Spill Release Procedures:WEAR PROTECTIVE CLOTHING. VENTILATE ENCLOSED AREAS. CONTAIN SPILL. LIMIT SITE ACCESS TO EMERGENCY RESPONDERS. NEUTRALIZE WITH SODIUM BICARBONATE, SODA ASH, LIME OR OTHER NEUTRALIZING AGENT.

Neutralizing Agent:SODIUM BICARBONATE, SODA ASH, LIME

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

Handling and Storage Pre

cautions:KEEP AWAY FROM FLAMES DURING AND IMMEDIATELY AFTER CHARGING. COMBUSTION OR OVERCHARGING MAY CREATE OR LIBERATE TOXIC AND HAZARDOUS GASES AND LIQUIDS.

Other Precautions:STORE BATTERIES IN COOL, DRY, WELL VENTILATED AREA. DO NOT SHORT CIRCUIT BATTERY TERMINALS OR REMOVE VENT CAPS DURING STORAGE OR RECHARGING.

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

Respiratory Protection:SULFURIC ACID MIST -- FULL FACE OR HALF MASK RESPIRATOR WITH ACID MIST FILTER OR SCBA.

Ventilation:CHANGE AIR EVERY 15 MINUTES.

Protective Gloves:ACID RESISTANT RUBBER OR PLASTIC.

Eye Protection:GOGGLES OR FACE SHIELD.

Other Protective Equipment:RUBBER APRON AND BOOTS IF CONTACT IS EXPECTED. EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

EXPOSURE TO LEAD UNLIKELY BUT MAY CAUSE LASSITUDE, CONSTIPATION, ANEMIA, NAUSEA, VOMITING, PARALYSIS AND CNS DEPRESSION. GREATEST EXPOSURE CO

MES FROM DUST IN THE AIR AND ON HANDS WHEN CLEANING BATTERY POSTS AND IF ANY INTERANAL SOLID MATERIALS ARE EXPOSED IF THE BATTERY IS OPENED OR BROKEN.

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

HCC:C1

Boiling Pt:B.P. Text:235F,113C

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Vapor Pres:1

Vapor Density:3.4

Spec Gravity:1.250-1.300

pH:< 2

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:COMPLETE

Appearance and Odor:LEAD-ACID BATTERY WITH SULFURIC ACID E

LECTROLYTE.

COLOR OF CONTAINER IS BLACK

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

Stability Indicator/Materials to Avoid: YES

STRONG OXIDIZERS

Stability Condition to Avoid: AVOID OVERCHARGING AND SMOKING OR SPARKS  
NEAR BATTERY SURFACE. AVOID SPARKS, OPEN FLAMES.

Hazardous Decomposition Products: AN EXPLOSIVE HYDROGEN/OXYGEN MIXTURE  
MAY OCCUR DURING CHARGING.

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

Waste Disposal Methods: RETURN WH

OLE SCRAP BATTERIES TO DISTRIBUTOR,

MANUFACTURER OR LEAD SMELTER FOR RECYCLING. FOR NEUTRALIZED SPILLS,  
PLACE RESIDUE INTO CONTAINERS WITH SORBENT MATERIAL, SAND OR EARTH  
FOR DISPOSAL. CONTACT LOCAL, STATE ENVIRONMENTAL OFFICES FOR INFO.

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