

TROJAN BATTERY CO -- LEAD/ACID STORAGE BATTERY -- 6140-01-414-4588

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Product Identification  
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Product ID:LEAD/ACID STORAGE BATTERY

MSDS Date:05/28/1995

FSC:6140

NIIN:01-414-4588

MSDS Number: BYHMN

=== 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

Emergency Phone Num:213-946-8

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Preparer's Name:JOHN J. BRYSON

CAGE:94598

=== Contractor Identification ===

Company Name:BATTERY OUTLET INC

Address:1608 CAMPOSTELLA RD

Box:City:CHESAPEAKE

State:VA

ZIP:23324

Country:US

Phone:757-545-4442

Contract Num:SP0411-01-M-EH05

CAGE:0FGN2

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 Name:LEAD (SARA 313) (CERCLA)  
CAS:7439-92-1  
RTECS #:OF7525000  
Minumum % Wt:60.  
Maxumum % Wt:97.  
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:ANTIMONY (SARA III)  
CAS:7440-36-0  
RTECS #:CC4025000  
Minumum % Wt:1.5  
Maxumum % Wt:6.  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.5 MG/M  
3  
ACGIH TLV:0.5 MG (SB)/M3; 9394  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC (ORGANIC COMPOUNDS) (SARA III)  
CAS:7440-38-2  
RTECS #:CG0525000  
&lt; Wt:1.  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:SEE 1910.1018  
ACGIH TLV:0.01 MG/M3, A1; 9394  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:SULFURIC ACID (SARA III)/BATTERY ELECTROLYTE  
CAS:7664-93-9  
RTECS #:WS5600000  
Minumum % Wt:10.  
Maxumum % Wt:38.  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9394  
EPA Rpt Q

ty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:CALCIUM, METAL  
CAS:7440-70-2  
RTECS #:EV8040000  
&lt; Wt:.15  
Other REC Limits:NONE RECOMMENDED

Ingred Name:TIN  
CAS:7440-31-5  
RTECS #:XP7320000  
&lt; Wt:.3  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3; 9394

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

LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT AS A WHOLE  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OS  
HA:NO  
Health Hazards Acute and Chronic:IF BATTERY CASE IS RUPTURED, CONTACT WITH ACIDIC ELECTROLYTE MAY OCCUR. ACID CAN CAUSE IRRITATION OF EYES, NOSE, THROAT. BREATHING MIST PRODUCES RESPIRATORY DIFFICULTY, CONTACT WITH SKIN AND EYES CAUS ES IRRITATION AND SKIN BURNS. REPEATED CONTACT MAY RESULT IN DERMATITIS, CHRONIC BRONCHITIS.  
Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCI  
NOGENS.  
Effects of Overexposure:SKIN IRRITATION, SKIN BURNS, DERMATITIS, EYE IRRITATION, EYE BURNS, NOSE/THROAT IRRITATION, INFLAMMATION OF UPPER RESPIRATORY TRACT, BRONCHITIS, EROSION OF TEETH ENAMEL.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHALATION: MOVE TO VENTILATED AREA. OBTAIN MEDICAL ATTENTION. EYES: WASH THE EYES WITH COPIOUS QUANTITIES OF RUNNING WATER FOR 15 MI

NOTES. OBTAIN MEDICAL ATTENTION. SKIN: FLUSH AREA WITH LARGE AMOUNTS OF WATER. REMOVE CONTAMINATED CLOTHING. OBTAIN MEDICAL ATTENTION. INGESTION: WASH OUT MOUTH WITH RUNNING WATER. GIVE MILK OR WATER TO DRINK. DO NOT INDUCE VOMITING. CALL PHYSICIAN.

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

Flash Point:NONFLAMMABLE

Lower Limits:4.1 % (H2)

Upper Limits:74.2 % (H2)

Extinguishing Media:HALON, DRY CHEMICAL.

Fire Fighting Procedures:BATTERIES DO NOT BURN.

EXTINGUISH FIRE WITH

AGENT SUITABLE FOR SURROUNDING COMBUSTIBLE MATERIALS. COOL EXTERIOR OF BATTERY IF EXPOSED TO PREVENT RUPTURE.

Unusual Fire/Explosion Hazard:THE ACID MIST AND VAPORS ARE CORROSIVE.

WEAR RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING. HYDROGEN GAS AND SULFURIC ACID VAPORS ARE GENERATED AT OVERCHARGE.

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

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

Neutralizing Agent:SODIUM BICARBONATE, SODA ASH, LIME.

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

Handling and Storage Precautions: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. AVOID PROLONGED OVERCHARGE. SODA BICARBONATE, SODA ASH, SODA AND OR LIME SHOULD BE KEPT ON HAND.

===== 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 P

rotection:GOGGLES OR FACE SHIELD

Other Protective Equipment:CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health

LEAD EXPOSURE WHILE UNLIKELY, MAY CAUSE LASSITUDE, CONSTIPATION, ANEMIA, NAUSEA, VOMITING, PARALYSIS AND CENTRAL NERVOUS SYSTEM DEPRESSION. GR

EATEST EXPOSURE COMES FROM DUST IN THE AIR AND ON HANDS W HEN CLEANING BATTERY POSTS AND IF ANY INTERANL SOLID MATERIALS ARE EXPOSED IF THE BATTERY IS OPENED OR BROKEN.

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

HCC:C1

Boiling Pt:=112.8C, 235.F

B.P. Text:ELECTROLYTE

Melt/Freeze Pt: 1

Spec Gravity:1.250 - 1.300

pH:< 2

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:100% SOLUBLE

Appearance and Odor:COLORLESS LIQUID ELECTROLYTE IN POLYPROPYLENE OR HARD RUBBER CASE.

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

Stability Indicator/Materials to Avoid:YES

SPARKS, OPEN FLAMES. KEEP BATTERY CASE AWAY FROM STRONG OXIDIZERS.

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

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

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

Waste Dispos

al Methods:RETURN WHOLE 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. CONTAC T LOCAL/STATE AUTHORITIES FOR DISPOSAL INFORMATION

===== MSDS Transport Information =====

Transport Information:LEAD/ACID STORAGE BATTERY, UN2794, CLASS 8, PACKING GROUP III.

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