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TROJAN BATTERY CO -- LEAD-ACID BATTERY,379596 -- 6140-01-261-4977
========== Product Identification ==========

Product ID:LEAD-ACID BATTERY,379596
MSDS Date:05/01/1990
FSC:6140
NIIN:01-261-4977
MSDS Number: CFCWD
=== 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:310-946-8381/714-521-8215
Emergency Phone Nu
m:310-946-8381/800-424-9300(CHEMTREC)
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

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

Ingred Name:SULFURIC ACID (SARA 302/313)

(CERCLA)/30-38% SULFURIC ACID
IN WATER
CAS:7664-93-9
RTECS #:WS5600000
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 (SARA 313) (CERCLA)/LEAD ALLOY
CAS:7439-92-1
RTECS #:OF7525000
Fraction by Wt: 94 - 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 313) (CERCLA) IN LEAD ALLOY
CAS:7440-36-0
RTE
CS #:CC4025000
Fraction by Wt: 2 - 6%
Other REC Limits:NONE RECOMMENDED
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) IN LEAD ALLOY
CAS:7440-38-2
RTECS #:CG0525000
Fraction by Wt: 0.25%
Other REC Limits:NONE RECOMMENDED
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 IN LEAD ALLOY
CAS:7440-31-5
RTECS #:XP7320000
Fraction by Wt: 0.3%
Other REC Limits:NONE

RECOMMENDED
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3; 9596

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT RELEVANT.
Routes of Entry: Inhalation:NO Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, CNS, LUNG, GI TRACT. ACUTE- LEAD MAY CAUSE GI UPSET, DIARRHEA, CRAMPING & FATIGUE. SULFURIC ACID MAY CAUSE EYE, SKIN & RESPIRATORY TRACT IRRI
TATION, BURNS, CORNEAL & LUNG DAMA GE. CHRONIC- LEAD MAY CAUSE ANEMIA, KIDNEY & NERVOUS SYSTEM DAMAGE. ACID CAN CAUSE BRONCHITIS, EROSION OF TOOTH ENAMEL.
Explanation of Carcinogenicity:CONTAINS ARSENIC WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN. CONTAINS LEAD.
Effects of Overexposure:GI UPSET, LOSS OF APPETITE, DIARRHEA, CONSTIPATION, CRAMPING, LACK OF SLEEP, FATIGUE, IRRITATION, BURNS, CORNEAL AND LUNG DAMAGE
Medical Cond Aggravated by Exposure:LE
AD AND ITS COMPOUNDS CAN
AGGRAVATE CHRONIC FORMS OF KIDNEY, LIVER AND NEUROLOGIC DISEASES. CONTACT OF SULFURIC ACID WITH SKIN MAY AGGRAVATE DISEASES SUCH AS ECZEMA. ACID MIST AGGRAVATES LUNG DISEASE

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

First Aid:OBTAIN MEDICAL ATTENTION IMMEDIATELY IN ALL CASES OF EXPOSURE. EYES/SKIN:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. KEEP EYELIDS OPEN. INHALATION:MOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED.
ING ESTION:DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK AS MUCH MILK OR WATER AS POSSIBLE WITHOUT VOMITING.

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

Flash Point:NON-FLAMMABLE
Lower Limits:4.1% H2
Upper Limits:74.2% H2
Extinguishing Media:USE CARBON DIOXIDE, SAND, FOAM/DRY CHEMICAL. WATER APPLIED TO ELECTROLYTE GENERATES HEAT AND CAUSES IT TO SPATTER.
Fire Fighting Procedures:WEAR ACID-RESISTANT CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARAT

US WITH FULL
FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.
Unusual Fire/Explosion Hazard:BATTERY CELLS MAY RUPTURE WHEN EXPOSED TO EXCESSIVE HEAT. THIS COULD RESULT IN RELEASE OF CORROSIVE MATERIALS. HYDROGEN GAS, IF PRESENT, IS EXPLOSIVE/FLAMMABLE.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENTS. REMOVE COMBUSTIBLES & IGNITION SOURCES (H2 MAY BE PRESENT). CONTAIN BY DIKING AND COVER SPILL WITH SODA
ASH OR QUICKLIME. MIX WELL. CHECK
THAT MIXTURE IS NEUTRAL. COLLECT A ND PLACE IN A DRUM. DO NOT FLUSH TO SEWER.
Neutralizing Agent:SODA ASH (SODIUM CARBONATE), QUICKLIME (CALCIUM OXIDE)

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

Handling and Storage Precautions:STORE NEAR EYEWASH FOUNTAIN AND SAFETY SHOWER. STORAGE AREA SHOULD BE EQUIPPED WITH A DRAIN WHICH CAPTURES SPILLS OF ACID FOR PROPER DISPOSAL.
Other Precautions:KEEP TERMINALS COVERED. AVOID
SHORTING BATTERIES. DO
NOT CRACK OR OVERCHARGE BATTERIES. KEEP LIGHTED CIGARETTES, SPARKS, AND FLAMES AWAY FROM CHARGING BATTERIES. KEEP OUT OF REACH OF CHILDREN. WASH TH OROUGHLY AFTER HANDLING.

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

Respiratory Protection:NOT REQUIRED UNDER NORMAL USE. USE NIOSH-APPROVED ACID-MIST FILTER RESPIRATOR IF 1 MG/M3 TWA IS EXCEEDED (ACID).
Ventilation:ADEQUATE GENERAL VENTILATION. IF MECHANICAL VENTILATION IS
US
ED, COMPONENTS MUST BE ACID-RESITANT.
Protective Gloves:RUBBER OR PLASTIC
Eye Protection:SPLASH-PROOF CHEMICAL GOGGLES/FACESHIELD
Other Protective Equipment:RUBBER APRON AND BOOTS. EYES WASH STATION AND SAFETY SHOWER. USE ACID-PROOF CLOTHING FOR MAJOR SPILLS.
Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.
Supplemental Safety and Health

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

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HCC:C1
NRC/State Lic Num:NOT RELEVANT
Spec Gravity:1.24-1.28 ACID
Viscosity:NOT RELEVANT
Evaporation Rate & Reference:NOT RELEVANT
Solubility in Water:NOT RELEVENT
Appearance and Odor:BATTERY CONTAINING SULFURIC ACID AND LEAD.

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

Stability Indicator/Materials to Avoid:YES
ORGANIC MATERIALS, STRONG REDUCING AGENTS, METALS, WATER, SULFUR TRIOXIDE GAS, STRONG OXIDIZING AGENTS, BASES
Stability Condition to Av
oid:HIGH HEAT, OPEN FLAMES, OVERCHARGING, SMOKING, SPARKS
Hazardous Decomposition Products:LEAD OXIDE, HYDROGEN, SULFUR DIOXIDE, SULFUR TRIOXIDE, CARBON MONOXIDE, METAL FUME, VAPOR OR DUST, ARSINE GAS

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

Waste Disposal Methods:DISPOSE AS HAZARDOUS WASTE. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS FOR ACID OR LEAD SCRAP. SEND BATTERIES TO LEAD SMELTER FOR RECLAMATION FOLLOWING APPLICABLE

FEDERAL, STATE AN D LOCAL REGULATIONS.