

TROJAN BATTERY CO -- AUTOMOTIVE, COMMERCIAL AND INDUSTRIAL LEAD -- 6140-01-044-2605  
===== Product Identification =====

Product ID:AUTOMOTIVE, COMMERCIAL AND INDUSTRIAL LEAD

MSDS Date:03/21/1991

FSC:6140

NIIN:01-044-2605

MSDS Number: BGHHV

=== 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:213-946-8381

CAGE:94598

=== Contractor Identification ===

Company Name:CHICAGO INDUSTRIAL TRADING CO

Address:1901 LANDMEIER RD

Box:City:ELK GROVE VILLAGE

State:IL

ZIP:60007

Country:US

Phone:708-981-0090

CAGE:0K4U5

Company Name:PROTRONICS CORP

Address:2411 11TH AVE S

Box:City:GREAT FALLS

State:MT

ZIP:59405

Country:US

Phone:888-452-9589/FAX: 406-452-0089

CAGE:06DN1

Company Name:STANDARD BATTERIES OF BILLINGS INC.

Address:3823 MONTANA AVE

Box:City:BILLINGS

State:MT

ZIP:5910

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Country:US  
Phone:406-248-7857  
CAGE:1E276  
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:SULFURIC ACID (SARA III)  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: 30-38%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:TIN  
CAS:744  
0-31-5  
RTECS #:XP7320000  
Fraction by Wt: 0.3%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3; 9192

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Hazards Identification  
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES  
Health Hazards Acute and Chronic:ACUTE:INHALATION OF ACID VAPORS MAY  
CAUSE SEVERE IRRITATION OR BURNS OF THE RESPIRATORY SYSTEM,  
PULMONARY EDEMA, OR LUNG INFLAMMATION. MAY CAUSE SEVERE BU

RNS TO

SKIN OR EYES. INGESTION MAY CAUSE SEVERE BURNS TO MOUTH, THROAT, AND STOMACH. MAY AFFECT KIDNEY FUNCTION. CHRONIC:MAY DAMAGE LUNGS, TEETH EROSION.

Explanation of Carcinogenicity:ARSENIC IS LISTED BY IARC, NTP, & OSHA AS A CARCINOGEN.

Effects of Overexposure:ACID:SEVERE IRRITATION OR BURNS TO EYES, NOSE AND THROAT. PULMONARY EDEMA, BRONCHIAL EMPHYSEMA, CONJUNCTIVITIS, STOMATITIS, DENTAL EROSION, NAUSEA AND VOMITING. LEAD:STOMACH CRAMPS, ANEMIA AND NERVE DAMAGE.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH PLENTY OF WATER FOR 15 MINUTES. GET MEDICAL ADVICE. INGESTION:DO NOT INDUCE VOMITING. DRINK 1-2 GLASSES OF WATER/MILK IF CONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

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

Autoignition Temp:Autoignition Temp Text:NONE

Lower Limits:4.1( FOR H2)

Upper Limits:74.2(FOR H2)

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:IF ON CHARGE, SHUT OFF POWER.

Unusual F

ire/Explosion Hazard:WILL GENERATE HYDROGEN ON OVERCHARGE. MAY EXPLODE IN FIRE AND PRODUCE HAZARDOUS FUMES AND OXIDE OF SULFUR GASES.

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

Spill Release Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. DO NOT USE WATER. NEUTRALIZE SPILL AND/OR WASHINGS WITH SODA ASH OR LIME. WITH CLEAN SHOVEL, PLACE MATERIAL INTO CLEAN, DRY CONTAINER.

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Neutralizing Agent: J.T. BAKER'S NEUTRASORB (R) OR TEAM 'LOW NA+' ACID NEUTRALIZERS ARE RECOMMENDED.

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Handling and Storage  
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Handling and Storage Precautions: KEEP BATTERY TIGHTLY CLOSED. STORE IN CORROSION-PROOF AREA. ISOLATE FROM INCOMPATIBLE MATERIALS.  
Other Precautions: DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. DO NOT BREATHE VAPOR. WASH THOROUGHLY AFTER HANDLING. IN CASE OF SPILL NEUTRALIZE WITH SODA ASH OR LIME.

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Exposure Controls/Personal Protection  
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Respiratory Protection: NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION EXCEEDS TLV, A NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.  
Ventilation: USE MECHANICAL (GENERAL) OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.  
Protective Gloves: RUBBER GLOVES  
Eye Protection: SAFETY GOGGLES WITH OPTIONAL FACE SHIELD  
Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER.  
INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.  
Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.  
Supplemental Safety and Health  
AVOID PROLONGED OR REPEATED EXPOSURE TO ACID AND LEAD. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS. WASH HANDS AFTER HANDLING BATTERY ACID OR LEAD TERMINALS.

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Physical/Chemical Properties  
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HCC: Z4  
Spec Gravity: 1.24-1.28 H<sub>2</sub>SO<sub>4</sub>  
pH: