

TROJAN BATTERY CO -- C24-3 LIGHT TRUCK AND VAN COMMERCIAL 12 VOL -- 6140-01-337-0210

===== Product Identification =====

Product ID:C24-3 LIGHT TRUCK AND VAN COMMERCIAL 12 VOL

MSDS Date:05/01/1990

FSC:6140

NIIN:01-337-0210

MSDS Number: BRHDR

=== 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)

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 =====

Ing

red 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:LEAD (SARA III)
CAS:7439-92-1
RTECS #:OF7525000
Fraction by Wt: 94-97%
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.05 MG/M3;1910.1025
ACGIH TLV:0.15 MG/M3;DUST 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY (SARA III)
CAS:7440-36-0
RTECS #:CC4025000
Fraction by Wt: 2-6%

Other REC Limits:NONE SPECIFIED
OSHA PEL:0.5 MG/M3
ACGIH TLV:0.5 MG SB/M3; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC (SARA III)
CAS:7440-38-2
RTECS #:CG0525000
Fraction by Wt: 0.25%
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.5 MG/M3 (AS)
ACGIH TLV:0.01,A1 MG/M3; 9394
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; 9192

===== Haza

Product Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE: SEVERE BURNS AND ULCERATION OF SKIN, EYES, MOUTH, THROAT, ESOPHAGUS AND STOMACH; INFLAMMATION OF BRONCHIAL MEMBRANES. CHRONIC: EROSION OF TEETH, INFLAMMATION OF NOSE, THROAT AND BRONCHIAL TUBES .

Explanation of Carcinogenicity:LEAD AND ARSENIC

ARE LISTED IN NTP AND IARC

Effects of Overexposure:IF CONTACTED, SEVERE BURNS AND ULCERATION OF SKIN AND EYES. IF INHALED, SEVERE RESPIRATORY IRRITATION. IF INGESTED, SEVERE BURNS AND ULCERATION

Medical Condition Aggravated by Exposure:EXPOSURE TO MISTS MAY CAUSE LUNG DAMAGE AND AGGRAVATE PULMONARY CONDITIONS.

===== 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.

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

Flash Point:NONE

Lower Limits:4.0(HYDROGEN)

Upper Limits:75(HYDROGEN)

Extinguishing Media:USE CARBON DIOXIDE OR DRY CHEMICAL.

Fire Fighting Procedures:EVACUATE AREA. REMOVE ALL IGNITION SOURCES.

WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SCBA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:HYDROGEN GAS MAY BE PRODUCED AND MAY EXPLODE IF IGNITED. REMOVE ALL IGNITION SOURCES. VENTILATE AREA.

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

Spill Release Procedures:WEAR APPROPRIATE PROTECTIVE EQUIPMENT. DILUTE CAUTIOUSLY WITH WATER. COVER WITH SODA ASH OR QUICKLIME. SCOOP UP AND PLACE IN APPROPRIATE DISPOSITION

OSAL CONTAINER. FLUSH AREA WITH LARGE AMOUNTS OF WATER.

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

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

Handling and Storage Precautions:STORE AT ROOM TEMPERATURE AWAY FROM FLAMES, IGNITION SOURCES, COMBUSTIBLE AND ORGANIC MATERIALS. AVOID PROLONGED OVERCHARGING. WEAR PROTECTIVE EQUIPM.

Other Precautions:DO NOT CARRY BATTERY BY TERMINALS. DO NOT DROP BATTERY, PUNCTU

RE OR ATTEMPT TO OPEN BATTERY CASE. KEEP TERMINALS COVERED IN PLASTIC CASE. AVOID SHORTING BATTERIES. PLACE BROKEN BATTERIES IN PLASTIC CO NTAINERS AND DELIVER TO BATTERY RECYCLER

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

Respiratory Protection:NONE NORMALLY REQUIRED. NIOSH/MSHA-APPROVED CARTRIDGE RESPIRATOR FOR ACIDS OR FULL FACE MASK AS APPROPRIATE FOR EXPOSURE OF CONCERN WHEN TLV IS EXCEEDED.

Ventilation:GENERAL (MECHANICAL) VENTILATION. LOCAL EXHAUS T IN CONFINED AREAS.

Protective Gloves:RUBBER GLOVES IF CONTACT IS EXPECTED.

Eye Protection:GOGGLES IF CONTACT IS EXPECTED.

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

CLEAN TERMINALS WITH MILD BAKING SODA SOLUTION AND WASH WITH WATER. WHEN BRUSHING BATTERY POSTS, USE MASK APPROVED FOR LEAD DUST, SAFETY GLASSES AND GLOVES.

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

HCC:C1

pH:ACIDIC

Appearance and Odor:LEAD-ACID BATTERY WITH SULFURIC ACID ELECTROLYTE. COLOR OF CONTAINER IS BLACK

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

Stability Indicator/Materials to Avoid:YES

ORGANIC MATERIALS, CHLORATES, CARBIDES, FULMINATES, WATER, POWDERED METALS (NOTE: REACTS VIOLENTLY WITH WATER).

Stability Condition to Avoid:AVOID SHORTING, USE ONLY APPROVED CHARGING METHODS. AV

OID HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION
Hazardous Decomposition Products:SULFURIC ACID FUMES, SULFUR DIOXIDE,
SULFUR TRIOXIDE, HYDROGEN GAS.

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

Waste Disposal Methods:CONSULT YOUR LOCAL ENVIRONMENTAL OFFICER.
DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL
ENVIRONMENTAL REGUALTIONS. ANY BROKEN OR OPENED BATTERIES MUST BE
PLACED IN SEALED PLASTIC CONTAINERS T HAT WILL NOT LEAK ACID OR
SO
LID MATERIAL.

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