

EAST PENN MFG CO INC -- BATTERY,ELECTRIC STORAGE -- 3930-01-026-3213

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Product Identification  
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Product ID:BATTERY,ELECTRIC STORAGE

MSDS Date:01/01/1987

FSC:3930

NIIN:01-026-3213

MSDS Number: BNQCM

=== Responsible Party ===

Company Name:EAST PENN MFG CO INC

Address:DEKA RD

City:LYON STATION

State:PA

ZIP:19536

Country:US

Info Phone Num:215-682-6361/202-483-7616 WASH.D.C.

Emergency Phone Nu

m:215-682-6361/800-424-9300(CHEMTREC)

CAGE:04055

=== Contractor Identification ===

Company Name:EAST PENN MFG CO INC

Address:DEKA RD

Box:City:LYON STATION

State:PA

ZIP:19536

Country:US

Phone:610-682-6361

CAGE:04055

Company Name:TAYLOR-DUNN MFG CO

Address:2114 W BALL RD

Box:City:ANAHEIM

State:CA

ZIP:92804-5417

Country:US

Phone:714-956-4040

CAGE:08786

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Composition/Information on Ingredients  
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Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000

Fraction by Wt:

43-70%  
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: 0-4%  
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:SULFURIC ACID (SARA III)  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: 20-44%  
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:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Other REC Limits:NONE SPECIFIED

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

LD50 LC50 Mixture:LD50 ORAL RAT IS 2140 MG/KG.  
Routes of Entry: Inhalation:NO Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: SEVERE BURNS AND ULCERATION OF  
SKIN, EYES, MOUTH, THROAT, ESOPHAGUS AND STOMACH. INFLAMMATIO

N OF

BRONCHIAL MEMBRANES. LEAD MAY CAUSE GASTROINTESTINAL DISORDERS AND CNS EFFECTS. CHRONIC: EROSION OF TEETH, INFLAMMATION OF NOSE, THROAT AND BRONCHIAL TUBES. LEAD MAY CAUSE ANEMIA, DAMAGE TO KIDNEYS AND CNS.

Explanation of Carcinogenicity: LEAD IS LISTED UNDER IARC AND NTP.

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 Cond Aggravated by Ex

posure: SULFURIC ACID MAY AGGRAVATE SKIN

DISEASES SUCH AS ECZEMA AND DERMATITIS. LEAD CAN AGGRAVATE CHRONIC FORMS OF KIDNEY, LIVER AND NEUROLOGIC DISEASES.

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First Aid Measures  
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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  
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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

AS MAY BE PRODUCED AND MAY

EXPLODE IF IGNITED. REMOVE ALL IGNITION SOURCES. VENTILATE AREA.

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Accidental Release Measures  
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Spill Release Procedures: WEAR APPROPRIATE PROTECTIVE EQUIPMENT. DILUTE CAUTIOUSLY WITH WATER. COVER WITH SODA ASH OR QUICKLIME. SCOOP UP AND PLACE IN APPROPRIATE DISPOSAL CONTAINER. FLUSH AREA WITH LARGE AMOUNTS OF WATER.

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

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===== **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, PUNCTURE OR ATTEMPT TO OPEN BATTERY CASE. KEEP TERMINALS COVERED IN PLASTIC CASE. AVOID SHORTING BATTERIES. PLACE BROKEN BATTERIES IN PLASTIC CO NTAINERS AND DE LIVER 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 EXHAUST 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.

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

HCC:C1

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

Vapor Pres:13

Spec Gravity:1.27

pH:ACIDIC

Evaporation Rate

& Reference: