

EAST PENN MANUFACTURING CO., INC. -- BATTERY SEALED NON-SPILLABLE ITEM 69682 --
6140-01-267-0597

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

Product ID: BATTERY SEALED NON-SPILLABLE ITEM 69682

MSDS Date: 11/09/1990

FSC: 6140

NIIN: 01-267-0597

MSDS Number: BSDTN

=== Responsible Party ===

Company Name: EAST PENN MANUFACTURING CO., INC.

Address: DEKA ROAD

City: LYON STATION

State: PA

ZIP: 19536

Country: US

Info Phone

Num: 215-682-6361

Emergency Phone Num: 215-682-6361

CAGE: DO231

=== Contractor Identification ===

Company Name: BUNTON CO

CAGE: 18456

Company Name: EAST PENN MANUFACTURING CO., INC.

Address: DEKA ROAD

City: LYON STATION

State: PA

ZIP: 19536

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

CAGE: DO231

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

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

Ingred Name: L

EAD (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

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===== Hazards Identification =====
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LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:SHORT TERM EXPOSURE: SULFURIC ACID MAY
CAUSE IRRITATION OF EYES, NOSE AND THROAT. PROLONGED CONTACT MAY
CAUSE SEV
ERE BURNS. LONG TERM EXPOSURE: REPEATED CONTACT CAUSES
IRRITATION AND SKIN BURNS. REPEATED EXPOSURE TO MIST MAY CAUSE
EROSION OF TEETH, CHRONIC EYE IRRITATION AND/OR CHRONIC
INFLAMMATION OF NOSE, THROAT.
Explanation of Carcinogenicity:LEAD AND LEAD COMPOUNDS ARE LISTED AS
POSSIBLE CARCINOGENS TO HUMANS IN IARC.
Effects of Overexposure:ACID CONTACT MAY CAUSE IRRITATION OF EYES, NOSE
AND THROAT. BREATHING OF MIST MAY PRODUCE RESPIRATORY DIFFICULTY.
CONTACT WITH EYES AND SK

IN CAUSES IRRITATION AND SKIN BURN.

SULFURIC ACID IS A CORROSI VE CHEMICAL.

Medical Cond Aggravated by Exposure:PULMONARY EDEMA, BRONCHITIS,
EMPHYSEMA, DENTAL EROSION AND TRACHEOBRONCHITIS.

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

First Aid:FLUSH CONTACTED AREA WITH LARGE AMOUNTS OF WATER FOR 15
MINUTES. REMOVE CONTAMINATED CLOTHING AND OBTAIN MEDICAL ATTENTION.
IF SWALLOWED, GIVE LARGE VOLUMES OF WATER. DO NOT INDUCE VOMITING.
OBTAIN ME DICAL TR
EATMENT. EYE WASH AND SHOWER STATIONS SHOULD BE
MADE AVAILABLE.

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

Flash Point:NON-FLAMMABLE

Lower Limits:4%(HYDROGEN)

Upper Limits:74%(HYDROGEN

Extinguishing Media:CLASS ABC EXTINGUISHER, CARBON DIOXIDE AND/OR
HALON.

Fire Fighting Procedures:COOL EXTERIOR OF BATTERY IF EXPOSED TO FIRE TO
PREVENT RUPTURE. THE ACID MIST AND VAPORS IN A FIRE SITUATION ARE
CORROSIVE. WEAR SPECIAL RESPIRATORY PROTECTION.

Unusual Fire

/Explosion Hazard:HYDROGEN GAS, WHICH MAY EXPLODE IF
IGNITED, IS PRODUCED BY THIS BATTERY, ESPECIALLY WHEN CHARGING. USE
ADEQUATE VENTILATION, AVOID OPEN FLAMES, SPARKS, ETC.

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

Spill Release Procedures:SULFURIC ACID: DILUTE SPILL CAUTIOUSLY WITH
FIVE TO SIX VOLUMES OF WATER AND GRADUALLY NEUTRALIZE WITH SODIUM
BICARBONATESODA ASH OR LIME. WHEN EXPOSURE LEVEL IS NOT KNOWN, WEAR
APPROVED POSITIVE PRES SURE SELF
-CONTAINED BREATHING APPARATUS.

Neutralizing Agent:SODIUM BICARBONATE, SODA ASH OR LIME.

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

Handling and Storage Precautions:STORE AWAY FROM REACTIVE MATERIAL.
SODIUM BICARBONATE, SODA ASH, SAND OR LIME SHOULD BE KEPT IN SAME
GENERAL AREA FOR EMERGENCY USE.

Other Precautions:IF BATTERY CASE IS BROKEN, AVOID DIRECT CONTACT WITH
INTERNAL COMPONENTS.

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

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Respiratory Protection:ACID GAS RESPIRATOR REQUIRED WHEN PEL IS EXCEEDED OR EMPLOYEE WITNESSES RESPIRATORY IRRITATION.
Ventilation:WHEN CHARGING IN AN ENCLOSED AREA, LOCAL EXHAUST IS PREFERRED. MECHANICAL (GENERAL) ACCEPTABLE AT 1 TO 4 AIR EXCHANGE.
Protective Gloves:RUBBER
Eye Protection:CHEMICAL SPLASH GOGGLES AND FACE SHIELD
Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE IMPERVIOUS WORK CLOTHING, BOOTS 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. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS.

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

HCC:N1
Boiling Pt:B.P. Text:235F,113C
Vapor Pres:13
Spec Gravity:1.220-1.325
Evaporation Rate & Reference: