

EAST PENN MFG CO INC -- BATTERY WET, FILLED WITH ACID -- 6140-00-057-2553

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

Product ID:BATTERY WET, FILLED WITH ACID

MSDS Date:12/01/1996

FSC:6140

NIIN:00-057-2553

Status Code:A

MSDS Number: CJKZB

=== Responsible Party ===

Company Name:EAST PENN MFG CO INC

Address:DEKA RD

City:LYON STATION

State:PA

ZIP:19536

Country:US

Info Phone Num:800-424-9300 (CHEMTREC)

Emergency Phone Num:(800)424-9300

Chemtrec Ind/Phone:(800)424-9300

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

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

Ingred Name:LEAD

CAS:7439-92-1

RTECS #:OF7525000

Minumum % Wt:43.

Maxumum % Wt:70.

ACGIH TLV:0.15 MG/M3

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:SULFURIC ACID

CAS:7664-93-9

RTECS #:WS5600000

Minumum % Wt:20.

Maxumum % Wt:44.

OSHA PEL:1 MG/M3

ACGIH TL

V:1 MG/M3
ACGIH STEL:3 MG/M3
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:ANTIMONY
CAS:7440-36-0
RTECS #:CC4025000
Minumum % Wt:0.
Maxumum % Wt:4.
OSHA PEL:0.5 MG/M3
ACGIH TLV:0.5 MG/M3
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC
CAS:7440-38-2
RTECS #:CG0525000
< Wt:.01
ACGIH TLV:0.01 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:POLYPROPYLENE
CAS:9003-07-0
RTECS #:UD1842000
Minumum % Wt:5.
Maxumum % Wt:10.

Ingred Name:CALCIUM
CAS:7440-70-2
RTECS #:EV80400
00
< Wt:1.

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS: RESPIRATORY SYSTEM,
EYES, SKIN AND TEETH. ACUTE- SULFURIC ACID MAY CAUSE IRRITATION OF
EYES, NOSE, AND THROAT. PROLONGED CONTACT MAY CAUSE SEVERE BURNS.
CHRONIC- REPEATED CONTACT CAUS ES IRRITATION AND SKIN BURNS.
REPEATED EXPOSURE TO

MIST MAY CAUSE ERROSION OF TEETH, CHRONIC EYE IRRITATION AND/OR CHRONIC INFLAMMATION OF THE NOSE, THROAT, AND BRONCHIAL TUBES.

Explanation of Carcinogenicity:SULFURIC ACID MIST: ACGIH- SUSPECTED HUMAN CARCINOGEN. NTP- REASONABLY ANTICIPATED TO BE A CARCINOGEN. LEAD: PROOF OF CARCINOGENICITY IN HUMANS IS LACKING AT PRESENT.

Medical Cond Aggravated by Exposure:PULMONARY EDEMA, BRONCHITIS, EMPHYSEMA, DENTAL ERROSION, AND TRACEOBRONCHITIS.

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

First Aid:EYES & SKIN: FLUSH CONTACTED AREA WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MIN. REMOVE CONTAMINATED CLOTHING AND OBTAIN MEDICAL ATTENTION. INGESTION: GIVE LARGE VOLUMES OF WATER. DO NOT INDUCE VOMITING. OBTAIN MEDICAL TREATMENT. E

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

Flash Point:NON-FLAMMABLE

Lower Limits:4

Upper Limits:74

Extinguishing Media:AIR EXPLOSION LIMITS: HYDROGEN GAS. CLASS ABC EXTINGUISHER, CO2.

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 (SCBA) AND CLOTHING.

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, OR OTHER SOURCES OF IGNITION. CONTACT OF ACID WITH METALS MAY PRODUCE TOXIC

SULFUR DIOXIDE FUMES AND MAY RELEASE FLAMMABLE HYDROGEN GAS.

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

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

Neutralizing Agent:SODIUM BICARBONATE

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

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Handling and Storage Precautions:STORE AWAY FROM REACTIVE MATERIAL.
Other Precautions:SODIUM BICARBONATE, SODA ASH, SAND, OR LIME SHOULD BE KEPT IN SAME GENERAL AREA FOR EMERGENCY USE. IF BATTERY CASE IS BROKEN, AVOID DIRECT CONTACT WITH INTERNAL COMPONENTS.

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

Respiratory Protection:RESPIRATOR REQUIRED WHEN PEL IS EXCEEDED OR EMPLOYEE WITNESSES RESPIRATORY IRRITATION.
Ventilation:MUST BE PROVIDED WHEN CHARGING IN AN ENCLOSED AREA.
29CFR1910.178(G) AND .305(J) (7).MECHANICAL(GENERAL) ACCEPTABLE AT 1 TO 4 (SEE SUPPL DATA).
Protective Gloves:ACID RESISTANT
Eye Protection:PREFERRED
Other Protective Equipment:ACID RESISTANT APRON, BOOTS AND PROTECTIVE CLOTHING.
Work Hygienic Practices:GOOD PERSONAL HYGIENE AND WORK PRACTICES ARE MANDATORY.
Supplemental Safety and Health
AIR EXCHANGES/HOUR OR TO MAINTAIN AIR CONCENTRATIONS BELOW THE PEL.
LOCAL EXHAUST: PREFERRED; LOCAL BUILDING/FIRE CODES MAY REQUIRE EXPLOSION PROOF FANS AND EQUIPMENT.

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

HCC:C1
Boiling Pt.=112.8C, 235.F
B.P. Text:APPROX
Melt/Freeze Pt:M.P/F.P Text:NA
Vapor Pres:13 MMHG
Vapor Density:NA
Spec Gravity:1.220 - 1.325
Evaporation Rate & Reference: