

EAST PENN MANUFACTURING CO., INC. -- ELECTRIC STORAGE BATTERY -- 6140-01-031-6878
===== Product Identification =====

Product ID:ELECTRIC STORAGE BATTERY

MSDS Date:09/23/1986

FSC:6140

NIIN:01-031-6878

MSDS Number: BJNNR

=== 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 Pho

ne Num:215-682-6361

CAGE:DO231

=== Contractor Identification ===

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: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: >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

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 2140 MG/KG FOR ACID.
Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION OF VAPORS CAUSES SEVERE
IRRITATION OR BURNS OF THE RESPIRATORY SYSTEM, PULMONARY EDEMA, OR
LUNG INFLAMMATION. EYE CONTACT CAUSES SEVERE DAMAGE AND POSSIBLE
B
LINDNESS. SKIN CONTACT CAUSES BU RNS AND POSSIBLE DEEP ULCERATION.
INGESTION CAUSES SEVERE BURNS TO MOUTH, THROAT, AND STOMACH.
CHRONIC: DENTAL EROSION.
Explanation of Carcinogenicity:NONE OF THE CHEMICALS ARE LISTED BY
IARC, NTP, OR OSHA AS A CARCINOGEN.
Effects of Overexposure:SEVERE IRRITATION OR BURNS TO EYES, NOSE AND
THROAT. PULMONARY EDEMA, BRONICAL EMPHYSEMA, CONJUNCTIVITIS,
STOMATITIS, DENTAL EROSION, NAUSEA AND VOMITING.
Medical Cond Aggravated by Exposure:PERSONS W

WITH A PRE-EXISTING DISEASE

INVOLVING THE RESPIRATORY TRACT SUCH AS PULMONARY EDEMA, BRONCHITIS, OR EMPHYSEMA AND DENTAL EROSION MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid: EYES: FLUSH WITH RUNNING WATER FOR 15 MINUTES WHILE HOLDING EYELID. GET MEDICAL ATTENTION IMMEDIATELY. SKIN: WASH WITH WATER. REMOVE CONTAMINATED CLOTHING. GET MEDICAL ATTENTION IMMEDIATELY. INGESTION : DO NOT INDUCE VOMITING.

IF CONSCIOUS GIVE LARGE DRINK OF WATER TO DILUTE. GET MEDICAL ATTENTION IMMEDIATELY. DO NOT GIVE ANYTHING BY MOUTH IF VICTIM IS UNCONSCIOUS.

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

Flash Point: NON-FLAMMABLE

Autoignition Temp: Autoignition Temp Text: NONE

Lower Limits: 4 (H2 GAS)

Upper Limits: 74 (H2 GAS)

Extinguishing Media: CLASS ABC EXTINGUISHER, CO2 AND/OR HALON

Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT

WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL BATTERY. ACID MIST IS CORROSIVE.

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.

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

Spill Release Procedures: SULFURIC ACID ELECTROLYTE: DILUTE SPILL CAUTIOUSLY WITH 5 TO 6 VOLUMES OF WATER AND GRADUALLY NEUTRALIZE. WHEN

EXPOSURE LEVEL IS NOT KNOWN, WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS.

Neutralizing Agent: SODIUM BICARBONATE OR A SODA ASH/SLAKED LIME MIXTURE (50-50)

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

Handling and Storage Precautions: STORE AWAY FROM REACTIVE MATERIAL SUCH AS STRONG OXIDIZING AGENTS.

Other Precautions: SODIUM BICARBONATE, SODA ASH, SAND OR LIME SHOULD BE KEPT IN SAME GENERAL AREA FOR EMERGENCY USE. HYDROGEN GAS IS PRODUCED WHEN

WHEN THIS BATTERY IS CHARGED. ELIMINATE SOURCES OF
IGNITION. IF BATTERY IS BROKEN, AVOID CONTACT WITH INTERNAL PARTS.

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

Respiratory Protection:IF AIRBORNE CONCENTRATION EXCEEDS PEL, A NIOSH
APPROVED ACID GAS RESPIRATOR IS REQUIRED.

Ventilation:USE MECHANICAL (GENERAL) VENTILATION WHEN CHARGING. USE
LOCAL EXHAUST IF CHARGING IN ENCLOSED AREA.

Protective Gloves:ACID RESISTANT GLOVES

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. LAUNDRY 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:C1

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

Vapor Pres:13

Spec Gravity:1.270-1.325

pH:1

Evaporation Rate & Reference: