

POWER BATTERY CO INC -- LEAD ACID BATTERY,P/N PL-4 -- 6140-00-190-6298

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Product Identification  
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Product ID:LEAD ACID BATTERY,P/N PL-4

MSDS Date:11/01/1991

FSC:6140

NIIN:00-190-6298

MSDS Number: BLMSX

=== Responsible Party ===

Company Name:POWER BATTERY CO INC

Address:543-53 E 42ND ST

City:PATERSON

State:NJ

ZIP:07513

Country:US

Info Phone Num:201-523-8630

Emergency Phone Num:201-523-8630

Preparer's Name:ROBERT F. MALLEY

CAGE:64748

=== Contractor Identification ===

Company Name:LAMINATED MATERIALS CORP.

Address:162 W LIPPINCOTT ST

Box:6710

City:PHILADELPHIA

State:PA

ZIP:19133-4221

Country:US

Phone:215-425-4100

CAGE:20200

Company Name:POWER BATTERY CO INC

Address:25 MCLEAN BLVD.

Box:City:PATERSON

State:NJ

ZIP:07514

Country:US

Phone:201-523-8630

CAGE:64748

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

LEAD DIOXIDE,  
AND LEAD SULFATE.)

CAS:7439-92-1

RTECS #:OF7525000

Fraction by Wt: 65-75%

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.05 MG/M3;1910.1025

ACGIH TLV:0.15 MG/M3;DUST 9293

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:LEAD DIOXIDE (PBO2)

CAS:1309-60-0

RTECS #:OG0700000

Other REC Limits:NONE SPECIFIED

OSHA PEL:.05MG PB/M31910.1025

ACGIH TLV:0.15 MG PB/M3 9293

Ingred Name:LEAD SULFATE (SARA III)

CAS:7446-14-2

RTECS #:OG4375000

Other REC Limits:NONE SPECIFIED

OSHA PEL:.05MG PB/M319

10.1025

ACGIH TLV:0.15 MG PB/M3; 9293

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

Ingred Name:SULFURIC ACID (SARA III)

CAS:7664-93-9

RTECS #:WS5600000

Fraction by Wt: 17-30%

Other REC Limits:NONE SPECIFIED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9293

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO

Health Hazards Acute and Chroni

c:SULFURIC ACID IS A STRONG CORROSIVE.

CONTACT CAN CAUSE SEVERE BURNS TO SKIN AND EYES. INGESTION WILL CAUSE GI TRACT BURNS. ACID CAN BE RELEASED IF CASE IS DAMAGED OR IF VENTS ARE TAMPERED WITH. EFFECTS OF LEAD ARE ACCUMULATIVE. IT AFFECTS THE KIDNEYS, REPRODUCTIVE, AND CENTRAL NERVOUS SYSTEM.

Explanation of Carcinogenicity:IARC LIST LEAD AS A POSSIBLE CARCINOGEN TO HUMANS FOR WHICH THERE IS INADEQUATE EVIDENCE.

Effects of Overexposure:ACID CONTACT MAY CAUSE SEVERE BURNS TO SKIN AND

EYES. BREATHING OF MIST MAY PRODUCE NOSE AND THROAT IRRITATION AND RESPIRATORY DIFFICULTY. OVEREXPOSURE TO LEAD AFFECTS KIDNEYS, REPRODUCTIVE AND CNS. SYMPTOMS ARE ANEMIA, VOMITING, HEADACHE, STOMACH PAIN (LEAD COLIC), DIZZINESS, LOSS OF APPETITE, MUSCLE AND JOINT PAIN.

Medical Cond Aggravated by Exposure:PERSON WITH PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, OR RESPIRATORY SYSTEM MAY BE AT INCREASED RISK FROM EXPOSURE TO INGREDIENTS IN THE BATTERIES.

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

First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. FLUSH AREA WITH LARGE AMOUNTS OF WATER. IF SYMPTOMS DEVELOP, GET MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. IF ADVERSE SYMPTOMS DEVELOP, GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. IF CONSCIOUS, FLUSH MOUTH WITH WATER, GIVE MILK OR SODIUM BICARBONATE SOLUTION. GET MEDICAL ATTENTION.

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

Lower Limits:4.0 (H2 GAS)

Upper Limits:74 (H2 GAS)

Extinguishing Media:USE "APC" TYPE FIRE EXTINGUISHER FOR BATTERY FIRES.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS. FLAMMABLE HYDROGEN GAS IS PRODUCED IN THE CELLS, KEEP AWAY IGNITION SOURCES.

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

Spill Release Procedures:NEUTRALIZE ACID WITH SODIUM BICARBONATE (BAKING SODA), SODIUM CARBONATE (SODA ASH) OR CALCIUM OXIDE (LIME). FLUSH AREA WITH WATER, AND DISCARD TO SEWAGE SYSTEM. DO NOT ALLOW UNNEUTRALIZED ACID INTO SEWAGE SYSTEM.

Neutralizing Agent:SODIUM BICARBONATE(BAKING SODA), SODIUM CARBONATE(SODA ASH), CALCIUM

# OXIDE(LIME)

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

Handling and Storage Precautions:STORE AWAY FROM REACTIVE MATERIALS, OPEN FLAMES AND SOURCES OF IGNITION. PROHIBIT SMOKING, SPARKS, FLAMES, ETC. FROM BATTERY CHARGING AREA.

Other Precautions:AVOID MIXING ACID WITH OTHER CHEMICALS. PREVENT SHORT CIRCUITING BATTERY TERMINALS. DO NOT REST TOOLS OR CABLES ON BATTERY. USE INSULATED TOOLS. FOLLOW INSTALLATION INSTRUCTIONS AND DIAGRAMS WHEN INST ALLING OR MAINTAINING BATTERY SYSTEMS.

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

Respiratory Protection:NONE UNDER NORMAL CONDITIONS. HEPA RESPIRATOR SHOULD BE WORN DURING BATTERY RECLAIM OPERATIONS, IF THE OSHA PEL IS EXCEEDED.

Ventilation:WHEN PEL IS EXCEEDED LOCAL EXHAUST IS PREFERRED. USE ADEQUATE VENTILATION TO MAINTAIN EXPOSURE BELOW PEL.

Protective Gloves:RUBBER GLOVES.

Eye Protection:CHEMICAL SAFETY GOGGLES/FACE SHIELD.

Other Protective Equipment:PROTECT IVE EQUIPMENT MUST BE WORN IF BATTERY IS CRACKED OR OTHERWISE DAMAGED.

Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

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

HCC:C1

Boiling Pt:=107.2C, 225.F

B.P. Text:225F(ACID)

Spec Gravity:1.29 ACID

pH: