

POWER-SONIC -- PS-1270, SEALED MAINTENANCE FREE LEAD ACID BATTERIES --  
6140-01-108-2159

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

Product ID:PS-1270, SEALED MAINTENANCE FREE LEAD ACID BATTERIES

MSDS Date:05/20/1997

FSC:6140

NIIN:01-108-2159

Status Code:A

MSDS Number: CKVNL

=== Responsible Party ===

Company Name:POWER-SONIC

Address:9163 SIEMPRE VIVA RD, STE A-F

City:SAN DIEGO

State:CA

ZIP:92173-5000

Coun

try:US

Info Phone Num:619-661-2030/619-661-8033(FAX)

Emergency Phone Num:619-661-2030

Resp. Party Other MSDS Num.:533318

Preparer's Name:ENGINEERING

CAGE:GO387

=== Contractor Identification ===

Company Name:BATTERY OUTLET INC

Address:1608 CAMPOSTELLA RD

Box:City:CHESAPEAKE

State:VA

ZIP:23324

Country:US

Phone:757-545-4442

Contract Num:SP0430-01-D-4017

CAGE:0FGN2

Company Name:POWER-SONIC

Address:9163 SIEMPRE VIVA RD, STE A-F

City:SAN DIEGO

State:CA

ZIP:92173-5000

Country:US

Phone:619-661-2030/619-

661-8033(FAX)  
CAGE:GO387

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Composition/Information on Ingredients  
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Ingred Name:LEAD (AS PB, PB02, PBSO4)  
CAS:7439-92-1  
RTECS #:OF7525000  
= 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  
= Wt:20.  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3  
ACGIH STEL:3 MG/M3  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:FIBERGLASS SEPARATOR  
= Wt:5.

Ingred Name:STYRON R 47B (POLYSTYRENE)  
= Wt:5.

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Hazards Identification  
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LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT AS A WHOLE  
Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS:N/P. LEAD: THE TOXIC  
EFFECTS OF LEAD ARE ACCUMULATIVE & SLOW TO APPEAR. IT AFFECTS THE  
KIDNEYS, REPRODUCTIVE AND CENTRAL NERVOUS SYSTEM. EXPOSURE TO LEAD  
FROM A BATTERY MOST OFTEN OCCUR S DURING LEAD RECLAIM OPERATIONS  
THROU

GH THE BREATHING OR INGESTION OF LEAD DUSTS & FUMES. SULFURIC ACID: SULFURIC ACID IS A STRONG CORROSIVE. CONTACT WITH ACID CAN CAUSE SEVERE BURNS TO SKIN & EYES. INGESTION WILL CAUSE GI TRACT BURNS. ACID CAN BE RELEASED IF BATTERY CASE IS DAMAGED OR VENTS ARE TAMPERED WITH. FIBERGLASS SEPARATOR: FIBROUS GLASS IS AN IRRITANT OF THE UPPER RESPIRATORY TRACT, SKIN & EYES.

Explanation of Carcinogenicity:FIBERGLASS SEPARATOR: THIS PRODUCT IS NOT CONSIDERED CARCINOGENIC BY NTP OR IARC.

Effects of Overexposure:LEAD: ANEMIA, VOMITING, HEADACHE, STOMACH PAIN (LEAD COLIC), DIZZINESS, LOSS OF APPETITE, MUSCLE & JOINT PAIN. ACID: SEVERE BURNS. FIBROUS GLASS: IRRITATION OF UPPER RESPIRATORY TRACT, SKIN, EYES.

Medical Cond Aggravated by Exposure:NO DATA PROVIDED BY MANUFACTURER

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

First Aid:SKIN CONTACT: FLUSH WITH WATER. SEE PHYSICIAN IF CONTACT AREA IS LARGE OR IF BLISTERS FORM. EYE CONTACT: CALL PHYSICIAN IMMEDIATELY AND FLUSH WITH WATER UNTIL PHYSICIAN ARRIVES. INGESTION: CALL PHYSICIAN. IF PATIENT IS CONSCIOUS, FLUSH MOUTH WITH WATER, HAVE PATIENT DRINK MILK OR SODIUM BICARBONATE SOLUTION.

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

Flash Point:NON-FLAMMABLE

Lower Limits:4 (H2)

Upper Limits:74.2 (H2)

Extinguishing Media:NO DATA PROVIDED BY MANUFACTURER

Fire Fighting Procedures:IN CASE OF FIRE: WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:FIBROUS GLASS: TOXIC VAPORS MAY BE RELEASED. POLYSTYRENE: TEMPERATURES ABOVE 300C (572F) MAY RELEASE COMBUSTIBLE GASES. SEALED BATTERIES CAN EMIT HYDROGEN ONLY IF OVERCHARGED.

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

Spill Release Procedures:IF SULFURIC ACID IS PILLED FROM BATTERY, NEUTRALIZE WITH ACID WITH SODIUM BICARBONATE (BAKING SODA), SODA ASH OR CALCIUM OXIDE (LIME). FLUSH AREA WITH WATER AND D

ISCARD TO

THE SEWAGE SYSTEM. DO NOT ALLOW UN-NEUTRALIZED ACID INTO THE SEWAGE SYSTEM.

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

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

Handling and Storage Precautions: DUE TO THE BATTERY'S LOW INTERNAL RESISTANCE & HIGH POWER DENSITY, HIGH LEVELS OF SHORT CIRCUIT CAN BE DEVELOPED ACROSS THE BATTERY TERMINALS. DO NOT REST TOOLS OR CABLES ON THE BATTERY. USE INSULATED TOOLS ONLY. FOLLOW ALL INSTALLATION INSTRUCTIONS AND DIAGRAMS WHEN INSTALLING OR MAINTAINING.

Other Precautions: DLA-HMIS: KEEP TERMINALS COVERED. AVOID SHORTING BATTERIES. DO NOT OVERCHARGE BATTERIES. KEEP LIGHTED CIGARETTES, SPARKS, AND FLAMES AWAY FROM CHARGING BATTERIES. KEEP OUT OF REACH OF CHILDREN.

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

Respiratory Protection: A RESPIRATOR SHOULD BE WORN DURING RECLAIM OPERATIONS IF TLV IS EXCEEDED (LEAD). FOR EXPOSURE TO FIBROUS GLASS EXCEEDING 10F/CC USE MSA COMFOLL WITH TYPE H FILTER. ABOVE 10F/CC UP TO 50F/CC USE ULTRA-TWIN WITH TYPE H FILTER.

Ventilation: NO DATA PROVIDED BY MANUFACTURER

Protective Gloves: RUBBER.

Eye Protection: SAFETY GOGGLES AND FACESHIELD.

Other Protective Equipment: RUBBER APRON. DLA-HMIS: EYES WASH STATION AND SAFETY SHOWER. USE ACID-PROOF CLOTHING FOR MAJOR SPILLS.

Work Hygienic Practices: DLA-HMIS: REMOVE METALLIC JEWELRY-SHOCK POTENTIAL. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING AND DRINKING.

Supplemental Safety and Health  
NO DATA PROVIDED BY MANUFACTURER

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

HCC: Z4

Appearance and Odor: NO DATA PROVIDED BY MANUFACTURER FOR PRODUCT AS WHOLE

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

SULFURIC ACID: REACTIVE METALS, STRONG BASES, MOST ORGANIC COMPOUNDS.

Stability Condition to Avoid: SULFURIC ACID:

STABLE AT ALL TEMPERATURES.

PROHIBIT SMOKING, SPARKS, ETC FROM BATTERY CHARGING AREA. AVOID MIXING ACID WITH OTHER MATERIALS.

Hazardous Decomposition Products:SULFURIC ACID: SULFUR DIOXIDE, SULFUR TRIOXIDE, HYDROGEN SULFIDE, HYDROGEN.

===== Toxicological Information =====

Toxicological Information:LEAD: ORAL LD50: 500 MG/KG. SULFURIC ACID: ORAL LD50: 2140 MG/KG.

===== Ecological Information =====

Ecological:NO DAT  
A PROVIDED BY MANUFACTURER

===== Disposal Considerations =====

Waste Disposal Methods:NEUTRALIZED ACID MAY BE FLUSHED DOWN THE SEWER. SPENT BATTERIES MUST BE HANDLED AS HAZARDOUS WASTE AND DIPOSED OF ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS. A COPY OF THIS MATERIAL SAFETY DATA SHEET MUST BE SUPPLIED TO ANY SCRAP DEALER OR SECONDARY LEAD SMELTER WITH BATTERY.

===== MSDS Transport Information =====

Transport Information:NO DATA PROVIDED BY MANUFACTURER

===== Regulatory Information =====

SARA Title III Information:NO DATA PROVIDED BY MANUFACTURER  
Federal Regulatory Information:NO DATA PROVIDED BY MANUFACTURER  
State Regulatory Information:NO DATA PROVIDED BY MANUFACTURER

===== Other Information =====

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