

POWER-SONIC CORP, TECHNICAL DIV -- SEALED MAINTENANCE FREE LEAD ACID BATTERIES,PS-6360 -- 6140-01-090-6667

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

Product ID:SEALED MAINTENANCE FREE LEAD ACID BATTERIES,PS-6360

MSDS Date:05/20/1997

FSC:6140

NIIN:01-090-6667

Status Code:A

MSDS Number: CKDCD

=== Responsible Party ===

Company Name:POWER-SONIC CORP, TECHNICAL DIV

Address:9163 SIEMPRE VIVA RD SUITES A-F

Cit

y:SAN YSIDRO

State:CA

ZIP:92173-3608

Country:US

Info Phone Num:619-661-2020

Emergency Phone Num:619-575-2275/661-2020

CAGE:0WJ05

=== 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:SP0430-00-M-F807

CAGE:0FGN2

Company Name:CELL ENERGY INC

Address:3190-B ORANGE GROVE AVE

Box:City:NORTH HIGHLANDS

State:CA

ZIP:95660-5706

Country:US

Phone:916-484-7974

CAGE:1U269

Company Name:POW

ER-SONIC CORP
Address:9163 SIEMPRE VIVA ROAD
Box:City:SAN DIEGO
State:CA
ZIP:92173
Country:US
Phone:619-661-2030
CAGE:0WJ05
Company Name:PRO BATTERY CO INC
Address:3941 OAKCLIFF INDUSTRIAL CT
Box:City:ATLANTA
State:GA
ZIP:30340-3408
Country:US
Phone:770-449-5900
CAGE:5X783

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Composition/Information on Ingredients
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Ingred Name:LEAD (PB, PB02, PBSO4)
CAS:7439-92-1
RTECS #:OF7525000
= Wt:70.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE 1910.1025
ACGIH TLV:0.05MG/M3, A
3; 9596
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:SULFURIC ACID (SARA 302/313) (CERCLA)
CAS:7664-93-9
RTECS #:WS5600000
= Wt:20.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3/3 STEL; 9596
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:FIBERGLASS SEPARATOR
= Wt:5.
Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYSTYRENE
CAS:9003-53-6
RTECS #:WL6475000
= Wt:5.
Other REC Limits:NONE RECOMMENDED

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Hazards Identification
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LD50 LC50 Mixture:UNKNOWN.

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

Health Hazards Acute and Chronic:LEAD: THE TOXIC EFFECTS OF LEAD ARE ACCUMULATIVE & SLOW TO APPEAR. IT AFFECTS THE KIDNEYS, REPRODUCTIVE & CENTRAL NERVOUS SYSTEM. EXPOSURE TO LEAD FROM A BATTERY MOST OFTEN OCCURS DURING LEAD RECLAIM OPERATIONS THROUGH THE BREATHING OF LEAD DUSTS & FUMES. SULFURIC ACID: SULFURIC ACID IS A STRONG CORROSIVE. CONTACT WITH ACID CAN CAUSE SEVERE BURNS ON THE SKIN

& IN EYES. INGESTION OF SULFURIC ACID WILL CAUSE GI TRACT BURNS. ACID CAN BE RELEASED IF THE BATTERY CASE IS DAMAGED OR IF THE VENTS ARE TAMPERED WITH. FIBERGLASS SEPERATOR: FIBOROUS GLASS IS AN IRRITANT TO THE UPPER RESPIRATORY TRACT, SKI N & EYES.

Explanation of Carcinogenicity:CONTAINS LEAD. FIBERGLASS SEPERATOR: THIS PRODUCT IS NOT CONSIDERED CARCINOGENIC BY NTP OR OSHA.

Effects of Overexposure:LEAD: THE SYMPTOMS OF LEAD OVEREXPOSURE ARE ANEMIA, VOMITING, HEADACHE, STOMACH PAIN (LEAD COLIC), DIZZINESS. LOSS OF APPETITE, AND MUSCLE AND JOINT PAIN. THIS DATA MUST BE PASSED TO ANY SCRAP DEALER OR SMELTER WHEN A BATTERY IS RESOLD.

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

First Aid:EYE CONTACT: CALL PHYSICIAN IMMEDIATELY AND FLUSH WITH WATER UNTIL PHYSICIAN ARRIVES. SKIN CONTACT: FLUSH WITH WATER, CALL PHYSICIAN IF CONTACT AREA IS LARGE OR IF BLISTERS FORM. INGESTION: CALL PHY SICIAN IF PATIENT IS CONSCIOUS, F LUSH MOUTH WITH WATER, HAVE THE PATIENT DRINK MILK OR SODIUM BICARBONATE SOLUTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Lower Limits:4% HYDROGEN

Upper Limits:74.2% (H2)

Fire Fighting Procedures:SEALED BATTERIES CAN EMIT HYDROGEN ONLY IF OVER CHARGED. FIBERGLASS SEP: TOXIC VAPORS MAY BE RELEASED. IN CASE OF FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS. 478 POLYSTYRENE: TEMPERATURES OVER

300 C (572F) MAY RELEASE COMBUSTIBLE GASES. IN CASE OF FIRE, WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS.

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

Spill Release Procedures:IF SULFURIC ACID IS SPILLED FROM A BATTERY, NEUTRALIZE THE ACID WITH SODIUM BICARBONATE (BAKING SODA), SODIUM CARBON (SODA ASH), OR CALCIUM OXIDE (LIME). FLUSH THE AREA WATER AND DISCARD TO THE SEWAGE SYSTEM. DO NOT ALLOW UNNEUTRALIZED ACID INTO THE SEWAGE SY

STEM.

Neutralizing Agent:NEUTRALIZE THE ACID WITH SODIUM BICARBONATE (BAKING SODA), SODIUM CARBON (SODA ASH), OR CALCIUM OXIDE (LIME).

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

Other Precautions:PROHIBIT SMOKING, SPARKS ETC FROM BATTERY CHARGING AREA. AVOID MIXING ACID WITH OTHER CHEMICALS.

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

Respiratory Protection:RESPIRATOR (FOR LEAD). PROTECTIVE EQUIPMENT MUST BE WORN IF THE BATTERY IS CRACKED OR OTHERWISE DAMAGED. A RESPIRATOR SHOULD BE WORN DURING RECLAIM OPERATIONS IF THE TLV IS EXCEEDED.

Protective Gloves:RUBBER GLOVES.

Eye Protection:SAFETY GOGGLES, FACE SHIELD.

Other Protective Equipment:APRON.

Work Hygienic Practices:DUE TO THE BATTERY'S LOW INTERNAL RESISTANCE AND HIGH POWER DENSITY, HIGH LEVELS OF SHORT CIRCUIT CURRENT CAN BE DEVELOPED ACROSS THE BATTERY TERMINALS. DO NOT REST TOOLS OR CABLES ON THE **SEE SUPP

Supplemental Safety and Health

BATTER

Y. USE INSULATED TOOLS ONLY. FOLLOW ALL INSTRUCTIONS AND DIAGRAMS WHEN INSTALLING OR MAINTAINING BATTERY SYSTEMS.

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

HCC:Z4

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=114.C, 237.2F

B.P. Text:ACID

Decomp Temp:Decomp Text:NOT KNOWN

Spec Gravity:1.3 (ACID)

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:100%, ACID

Appearance and Odor:PRODUCT IS A SEALED BATTERY. CLEAR COLORLESS LIQUID

, ACID ODOR (ACID)

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

Stability Indicator/Materials to Avoid: YES

REACTIVE METALS, STRONG ALKALIS, MOST ORGANIC COMPOUNDS

Stability Condition to Avoid: PROHIBIT SMOKING, SPARKS ETC. FROM BATTERY CHARGING AREA. AVOID MIXING ACID WITH OTHER CHEMICALS.

Hazardous Decomposition Products: SULFURIC DIOXIDE, TRIOXIDES, HYDROGEN SULFIDE, HYDROGEN.

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

Waste Disposal

Methods: NEUTRALIZED ACID MAY BE FLUSHED DOWN THE SEWER.

SPENT BATTERIES MUST BE TREATED AS HAZARDOUS WASTE AND DISPOSED 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.

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