

POWER-SONIC CORP, TECHNICAL DIV -- 400-701-00, SEALED MAINTENANCE FREE LEAD-ACID BATTERY -- 6140-01-219-9414

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

Product ID:400-701-00, SEALED MAINTENANCE FREE LEAD-ACID BATTERY

MSDS Date:07/31/1998

FSC:6140

NIIN:01-219-9414

Status Code:A

MSDS Number: CKFDN

=== Responsible Party ===

Company Name:POWER-SONIC CORP, TECHNICAL DIV

Address:9163-A SIEMPRE VIVA ROAD

City:S

AN DIEGO

State:CA

ZIP:92173

Country:US

Info Phone Num:619-661-2020

Emergency Phone Num:619-575-2275

CAGE:0WJ05

=== Contractor Identification ===

Company Name:MONACO ENTERPRISES INC

Address:E 14820 SPRAGUE AVENUE

Box:14129

City:SPOKANE

State:WA

ZIP:99214-0129

Country:US

Phone:509-926-6277

Contract Num:SP0400-00-A-A171-0006

CAGE:32609

Company Name:POWER-SONIC CORP

Address:9163 SIEMPRE VIVA ROAD

Box:City:SAN DIEGO

State:CA

ZIP:92173

Country:US

Phone:619-661-2030

CAGE:0WJ05

===== Compositi

on/Information on Ingredients =====

Ingred Name:LEAD (PB, PBO2, PBS04)
RTECS #:OF7525000
= Wt:70.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.05 MG/M3
ACGIH TLV:0.15 MG/M3

Ingred Name:SULFURIC ACID
RTECS #:WS5600000
= Wt:20.
Other REC Limits:NONE RECOMMENDED

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

Ingred Name:STYRON R 478 (POLYSTYRENE)
RTECS #:WL6475000
= Wt:5.
Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:NO HEALTH HAZARDS UNDER NORMAL USE.
HOWEVER, IF BATTERY IS RUPTURED THEN THERE IS A DANGER OF
OVEREXPOSURE. ACID CAN BE RELEASED IF THE BATTERY CASE IS DAMAGED
OR IF VENTS ARE TAMPERED WITH. LEAD: TOX IC EFFECTS OF LEAD ARE
ACCUMULATIVE AND SLOW TO APPEAR. IT EFFECTS THE KIDNEYS,
REPRODUCTIVE, AND CENTRAL NERVOUS SYSTEM.

SULFURIC ACID: SULFURIC
ACID IS A STRONG CORROSIVE. CONTACT WITH ACID CAN CAUS E SEVERE
BURNS ON THE SKIN AND IN EYES. INGESTION OF SULFURIC ACID WILL
CAUSE GI TRACT BURNS. FIBERGLASS SEPARATOR: FIBERGLASS IS AN
IRRITANT OF THE RESPIRATORY TRACT, SKIN, AND EYES.

Explanation of Carcinogenicity:FIBERGLASS 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), D

IZZINESS,

LOSS OF APPETITE, AND MUSCLE AND JOINT PAIN. EXPOSURE TO LEAD FROM A BATTERY MOST OFTEN OCCURS DURING LEAD RECLAIM OPERATIONS THROUGH THE BREATHING OR INGESTION OF LEAD DUST OR FUMES.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:SKIN: FLUSH WITH WATER. SEE PHYSICIAN IF CONTACT AREA IS LARGE OR IF BLISTERS FORM. EYES: CALL PHYSICIAN IMMEDIATELY AND FLUSH WITH WATER

UNTIL PHYSICIAN ARRIVES. INGESTION: CALL PHYSICIAN. IF PATIENT IS CONSCIOUS, FLUSH 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 =====

Flash Point:NONE

Extinguishing Media:NONE SPECIFIED BY MANUFACTURER.

Fire Fighting Procedures:TOXIC VAPORS MAY BE RELEASED. IN CASE OF FIRE: WEAR SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire

Hazard:SEALED BATTERIES CAN EMIT HYDROGEN ONLY IF OVERCHARGED. TEMPERATURES OVER 300C (572F) MAY RELEASE COMBUSTIBLE GASES.

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

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

WAGE SYSTEM.

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

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

Handling and Storage Precautions:DUE TO BATTERY'S LOW INTERNAL RESISTANCE AND HIGH POWER DENSITY, HIGH LEVELS OF SHORT CIRCUIT CURRENT CAN BE DEVELOPED ACROSS BATTERY TERMINALS.

Other Precautions:DO NOT REST TOOLS OR CABLES ON BATTERY. USE INSULATED TOOLS ONLY. FOLLOW ALL INSTALLATION INSTRUCTION

S AND DIAGRAMS WHEN
INSTALLING OR MAINTAINING BATTERY SYSTEMS.

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

Respiratory Protection:NONE NORMALLY REQUIRED. PROTECTIVE EQUIPMENT MUST BE WORN IF THE BATTERY IS CRACKED OR OTHERWISE DAMAGED. WEAR RESPIRATOR FOR PROTECTION FROM LEAD INHALATION. A RESPIRATOR SHOULD BE WORN DURING RECLAIM OPERATIONS IF THE TLV IS EXCEEDED.

Ventilation:NONE SPECIFIED BY MANUFACTURER.

Protective Gloves:RUBBER GLOVES.

Eye Protection:

SAFETY GOGGLES, FACE SHIELD.

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

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

NONE

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

HCC:Z4

Melt/Freeze Pt:=-327.2C, 621.F

M.P/F.P Text:LEAD

Spec Gravity:11.34 LEAD

Solubility in Water:NONE

Appearance and Odor:SILVER-GRAY METAL. NO ODOR. (LEAD)

===== Stability and

Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

REACTIVE METALS, STRONG BASES, 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, TRIOXIDE, HYDROGEN SULFIDE, HYDROGEN.

Conditions to Avoid Polymerization:WILL NOT POLYMERIZE.

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

Waste Disposal

al Methods:NEUTRALIZED ACID MAY BE FLUSHED DOWN SEWER.

SPENT BATTERIES MUST BE TREATED AS HAZARDOUS WASTE AND DISPOSED OF ACCORDING TO LOCAL, STATE, AND FEDERAL REGULATIONS. COPY OF MSDS MUST BE SUPPLIED TO ANY SCRAP DEALER OR SECONDARY LEAD SMELTER WITH BATTERY.

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

Transport Information:POWER-SONIC'S NON-SPILLABLE, WET ELECTRIC STORAGE BATTERIES ARE DESIGNED TO WITHSTAND TESTS PRESCRIBED UNDER D.O.T. RE

GULATION 49 CFR 173.159(D) AND IATA'S "SPECIAL PROVISION" A67 FOR SEALED, NON-SPILLABLE, UN 2800 BATTERIES. SPECIFICALLY, POWER-SONIC'S NON-SPILLABLE WET ELECTRIC STORAGE BATTERIES PASS THE VIBRATION AND PRESSURE DIFFERENTIAL TEST REFERENCED IN D.O.T. REGULATION 173.159 (D). STANDARD COMMERCIAL PACKING, FURTHERMORE, PROVIDES PROTECTION AGAINST SHORT CIRCUITS AND NORMAL TRANSPORT CONDITIONS AS CALLED FOR IN SUBCHAPTER (D). THEREFORE THESE BATTERIES ARE NOT REGULATED FOR LAND, SEA, AIR TRANSPORT.

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.