Material Safety Data Sheet

BATTERY PLATES & PARTS

Manufacturer's Address: 2009 San Bernardino Road
West Covina, CA. 91790

Emergency Contact: 626-813-1234
800-255-3924 after hours

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SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: Battery plate and cast lead parts

COMMON SYNONYMS:

CHEMICAL FAMILY: Lead and Lead Components

FORMULA: Not Applicable

PRODUCT USE: Electric Storage Battery Manufacture

SECTION 2 - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAS NO.</th>
<th>HAZARD CATEGORY</th>
<th>%</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead/Lead Oxide</td>
<td>7439-92-1</td>
<td>Acute/Chronic</td>
<td>94%</td>
<td>0.05 mg/m³</td>
<td>0.05 mg/m³</td>
</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td>Chronic</td>
<td>1 - 5%</td>
<td>0.5 mg/m³</td>
<td>0.5 mg/m³</td>
</tr>
<tr>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>Acute/Chronic</td>
<td>&lt;1%</td>
<td>0.2 mg/m³</td>
<td>0.01 mg/m³</td>
</tr>
<tr>
<td>Calcium</td>
<td>7440-70-2</td>
<td>Reactive</td>
<td>&lt;0.15%</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

This product description or Trade name contains toxic chemicals subject to the reporting requirements under Section 313 of Title III “The Superfund Amendment and Reauthorization Act of 1986” and CFR 371 and California Proposition 65.

SECTION 3 - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: NA

MELTING POINT: 700°F

SPECIFIC GRAVITY: Lead, approx. 13

SOLUBILITY IN WATER: NA

PHYSICAL STATE: Solid unit

APPEARANCE: Lead/lead oxide (internal): Grey metallic solid; brown/grey oxide.

FLASH POINT (CLOSED CUP): NA

AUTOIGNITION TEMPERATURE: Not Applicable

FLAMMABLE LIMITS IN AIR (% BY VOLUME): LOWER: NA UPPER: NA

FIRE EXTINGUISHER MEDIA: Halon, dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Battery parts do not burn. Extinguish fire with agent suitable for surrounding combustible materials. Cool exterior of container if exposed to fire to prevent release of lead compounds and fumes.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None
SECTION 4 - PHYSICAL HAZARDS

INCOMPATIBILITY (Materials to Avoid): NA

STABILITY: Stable

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 5 - HEALTH HAZARDS

THRESHOLD LIMIT VALUE (TLV): Lead - 0.05 mg/m$^3$

Permissible exposure limits (PEL): 0.05 mg/m$^3$

SIGNS AND SYMPTOMS OF EXPOSURE: Lead

1. Chronic overexposure: Tire easily, loss of appetite, irritability, metallic taste, insomnia; toxic to nervous system, kidneys, and reproductive system.
2. Acute overexposure: Constipation, vomiting, blue line on gums, weak wrists or ankles, weight loss, yellowish skin.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Harmful effects of lead are increased for a person with dietary deficiencies in calcium, iron, and zinc.

ROUTES OF ENTRY: ingestion, inhalation.

CARCINOGENICITY:

- National Toxicology Program: No
- I.A.R.C. Monographs: No
- OSHA: No
- EPA CAG: Yes

EMERGENCY FIRST AID PROCEDURES:

Lead/lead oxide exposure

1. Inhalation: Remove from exposure, see physician.
2. Eyes: (dry oxide) Wash eyes with copious quantity of running water for 15 minutes, see physician
3. Skin: Not a direct route of entry.
4. Ingestion: See physician.

PROPOSITION 65 WARNING:

This product contains lead and lead compounds. Lead and lead compounds are chemicals known to the State of California to cause cancer. Lead is a chemical known to the State of California to cause birth defects and reproductive toxicity in both males and females.

SECTION 6 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

If product is involved in fire, release of dust or fumes from damaged storage containers may result. Use of SCBA full face or half-mask respirator with HEPA cartridge would be recommended.

VENTILATION: No

PROTECTIVE GLOVES:

Use leather or other protective gloves to minimize lead/lead oxide contamination if handling broken units.

EYE PROTECTION:

Safety glasses, face shield, or goggles for handling broken or damaged product.

OTHER PROTECTIVE EQUIPMENT: None required.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURE

PRECAUTIONS IN HANDLING AND STORAGE:

Exercise caution in handling and storage due to weight of units.

OTHER PRECAUTIONS: None

MATERIAL SPILLS OR RELEASE:

Pick up and containerize all battery parts and materials. Limit personal exposure with gloves, eye and face protection, as noted above.

WASTE DISPOSAL:

Battery parts may be recycled by EPA permitted secondary lead smelting facility or disposed of as hazardous waste pursuant to RCRA requirements.

Date Prepared: 10/7/97
Preparer's Signature: