



# 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

COMPONENT	CAS NO.	HAZARD CATEGORY	%	ACGIH TLV	OSHA PEL
Lead/Lead Oxide	7439-92-1	Acute/Chronic	94%	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>
Antimony	7440-36-0	Chronic	1 - 5%	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>
Arsenic	7440-38-2	Acute/Chronic	<1%	0.2 mg/m <sup>3</sup>	0.01 mg/m <sup>3</sup>
Calcium	7440-70-2	Reactive	<0.15%	NA	NA

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	VAPOR PRESSURE (mm Hg): NA
MELTING POINT: 700°F	VAPOR DENSITY (Air = 1): NA
SPECIFIC GRAVITY: Lead, approx. 13	% VOLATILE BY VOLUME: None
SOLUBILITY IN WATER: NA	REACTIVITY IN WATER: NA
PHYSICAL STATE: Solid unit	PH: Not Applicable
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	

<b>SECTION 4 - PHYSICAL HAZARDS</b>	
<b>INCOMPATIBILITY (Materials to Avoid):</b> NA	
<b>STABILITY:</b> Stable	
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> None	
<b>HAZARDOUS POLYMERIZATION:</b> Will not occur.	
<b>SECTION 5 - HEALTH HAZARDS</b>	
<b>THRESHOLD LIMIT VALUE (TLV):</b> Lead - 0.05 mg/m <sup>3</sup> <b>Permissible exposure limits (PEL):</b> 0.05 mg/m <sup>3</sup>	
<b>SIGNS AND SYMPTOMS OF EXPOSURE:</b> 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.	
<b>MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:</b> Harmful effects of lead are increased for a person with dietary deficiencies in calcium, iron, and zinc.	
<b>ROUTES OF ENTRY:</b> ingestion, inhalation.	
<b>CARCINOGENICITY:</b> National Toxicology Program: No I.A.R.C. Monographs: No OSHA: No EPA CAG: Yes	
<b>EMERGENCY FIRST AID PROCEDURES:</b> 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.	
<b>PROPOSITION 65 WARNING:</b> 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.	
<b>SECTION 6 - SPECIAL PROTECTION INFORMATION</b>	
<b>RESPIRATORY PROTECTION:</b> 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.	
<b>VENTILATION:</b> No	
<b>PROTECTIVE GLOVES:</b> Use leather or other protective gloves to minimize lead/lead oxide contamination if handling broken units.	
<b>EYE PROTECTION:</b> Safety glasses, face shield, or goggles for handling broken or damaged product.	
<b>OTHER PROTECTIVE EQUIPMENT:</b> None required.	
<b>SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURE</b>	
<b>PRECAUTIONS IN HANDLING AND STORAGE:</b> Exercise caution in handling and storage due to weight of units.	
<b>OTHER PRECAUTIONS:</b> None	
<b>MATERIAL SPILLS OR RELEASE:</b> Pick up and containerize all battery parts and materials. Limit personal exposure with gloves, eye and face protection, as noted above.	
<b>WASTE DISPOSAL:</b> Battery parts may be recycled by EPA permitted secondary lead smelting facility or disposed of as hazardous waste pursuant to RCRA requirements.	
<b>Date Prepared:</b> 10/7/97	<b>Preparer's Signature:</b>