



Material Safety Data Sheet

DRY CHARGED BATTERY

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:	Dry Charged Battery
DOT DESCRIPTION:	Batteries, dry (Not subject to DOT requirements)
CHEMICAL FAMILY:	Lead and Lead Components
FORMULA:	Not Applicable
PRODUCT USE:	Electric Storage Battery, Contains no electrolyte.

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 ³	0.05 mg/m ³
Antimony	7440-36-0	Chronic	1 - 5%	0.5 mg/m ³	0.5 mg/m ³
Arsenic	7440-38-2	Acute/Chronic	<1%	0.01 mg/m ³	0.01 mg/m ³
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: Polypropylene > 320°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: Battery: Rectangular polypropylene case with metal terminals, may be contained within an outer casing of aluminum or steel. Lead/lead oxide (internal): Grey metallic solid; brown/grey oxide.

FLASH POINT (CLOSED CUP): Polypropylene case - 675°F

AUTOIGNITION TEMPERATURE: Not Applicable

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

FIRE EXTINGUISHER MEDIA: Halon, dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Batteries do not burn or burn with difficulty. Extinguish fire with agent suitable for surrounding combustible materials. Cool exterior of battery 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): Keep battery case away from strong oxidizers.

STABILITY: Stable

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 5 - HEALTH HAZARDS

THRESHOLD LIMIT VALUE (TLV): Lead - 0.05 mg/m³ **Permissible exposure limits (PEL):** 0.05 mg/m³

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: See Proposition 65 Warning

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: Batteries and other related parts contain lead. Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. Wash hands after handling.

SECTION 6 - SPECIAL PROTECTION INFORMATION

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

VENTILATION: No

PROTECTIVE GLOVES: Use nitrile or equivalent gloves to minimize contamination if handling broken units.

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

OTHER PROTECTIVE EQUIPMENT: None expected to be required under normal use conditions.

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: Use caution when filling units with electrolyte (battery acid, dilute sulfuric acid) including acid resistant plastic or rubber gloves, eye protection, apron and boots. Material Safety Data Sheet for Lead-acid Battery applies when filled with sulfuric acid electrolyte.

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: 03/12/04

Preparer's Signature:

