



## MATERIAL SAFETY DATA SHEET

1. We would like to inform our customers that these batteries are exempt articles and are not subject to the 29 CFR 1910.1200 OSHA requirement, or to the Canadian WHMIS requirements and the sheets are supplied as a service to you.
2. **THESE BATTERIES ARE NOT SUITABLE FOR LANDFILL DISPOSAL (SEE SECTION 7).**

### 1. IDENTIFICATION

PRODUCT NAME: Sealed Lead Acid Batteries

SIZES: All

EMERGENCY TELEPHONE NUMBER: 800-424-9300 (24 hr, Chemtrec)

Environmental Health & Safety Information: 1-800-237-7000

EDITION DATE: 09-16-2011

APPROVED BY: Kevin J. Domack

### 2. INGREDIENTS

INGREDIENT NAME	CAS #	%	TLV*
Lead and compounds	7439-92-1	~ 70	50 ug/m <sup>3</sup> (TWA)
Sulfuric Acid (water solution)	7664-93-9	~20	1 mg/m <sup>3</sup> (TWA)
Plastic, paper, water, other	--	Balance	--

\*Source: OSHA 29 CFR 1910.1025 App A. OSHA 29 CFR 1910.1000 Table Z-1 3-01-2010

### 3. PHYSICAL DATA

Boiling Point @ 760 mm Hg (°C):	NA
Vapor Pressure (mm Hg @ 25°C):	NA
Vapor Density (Air = 1):	NA
Density (grams/cc):	NA
Percent Volatile by Volume (%):	NA
Evaporation Rate (Butyl Acetate = 1):	NA
Physical State:	NA
Solubility in Water (% by Weight):	NA
pH:	NA
Appearance and Odor:	geometric solid object

---

---

#### 4. FIRE & EXPLOSION HAZARD DATA

FLASH POINT: NA LOWER (LEL): NA

FLAMMABLE LIMITS IN AIR (%): NA UPPER (UEL): NA

EXTINGUISHING MEDIA: Use water, foam or dry powder, as appropriate.

AUTO-IGNITION: NA

SPECIAL FIRE FIGHTING PROCEDURES: As with any fire, wear self-contained breathing apparatus to avoid inhalation of hazardous decomposition products (See section 2).

SPECIAL FIRE EXPLOSION HAZARDS: Like any sealed container, battery cells may rupture when exposed to excessive heat; this could result in the release of flammable or corrosive materials.

---

---

#### 5. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE (TLV) AND SOURCE: NA

EFFECTS OF OVEREXPOSURE: None. (In fire or rupture situation see section 2 and section 4)

EMERGENCY FIRST AID PROCEDURES:

*Skin and Eyes:*

In the event that battery ruptures, flush exposed skin with copious quantities of flowing lukewarm water for a minimum of 15 minutes. Get immediate medical attention for eyes. Wash skin with soap and water.

For more information, visit: <http://www.nema.org/gov/ehs/committees/drybat/>.

---

---

#### 6. REACTIVITY DATA

STABLE OR UNSTABLE: Stable

INCOMPATIBILITY (MATERIALS TO AVOID): NA

HAZARDOUS DECOMPOSITION PRODUCTS: NA

DECOMPOSITION TEMPERATURE (0°F): NA

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: Avoid electrical shorting.

---

---

## 7. SPILL OR LEAK PROCEDURES

PROCEDURES TO CONTAIN AND CLEAN UP LEAKS OR SPILLS: In the event of a battery rupture, prevent skin contact and collect all released material in a plastic lined metal container.

REPORTING PROCEDURE: Report all spills in accordance with Federal, State and Local reporting requirements.

WASTE DISPOSAL METHOD: Waste lead acid batteries are considered a USEPA Hazardous Waste (D002 and D008), unless they are intact and are being reclaimed (40 CFR 266, subpart G). Their recapture and recycling are mandated under US Federal Law. Contact your distributor or retailer or call the Battery Council International (BCI) at 312-644-6610. For additional information on disposal or recycling options, visit: <http://www.nema.org/gov/ehs/committees/drybat/>.

---

---

## 8. PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): NA

VENTILATION:

Local Exhaust:	NA
Mechanical (General):	NA
Special:	NA
Other:	NA

PROTECTIVE GLOVES: NA

EYE PROTECTION: NA

OTHER PROTECTIVE CLOTHING: NA

---

---

## 9. SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Store in a dry place. Storing unpackaged cells together could result in cell shorting and heat build-up.

TRANSPORTATION-SHIPPING: These batteries, unless exempted, are classified as "Batteries, wet, non-spillable, (electric storage), Class 8, UN2800, PGIII. Our batteries meet the requirements listed in the provisions and packing instructions noted below and may be classified as non-dangerous goods for transportation.

USDOT – See 173-159 (d)

IMDG/Ocean – See SP238 and review SP29.

ICAO/Air – Our SLA batteries, in their original packaging, meet the requirements of packing instruction 806. Additionally review special provisions A48 and A67. The phrase "Not restricted, Special Provision A67" must be included on the air waybill when one is issued.

---

---

## 10. SARA 313

Notification is not required because these products are article(s) that do not release a covered toxic chemical under the normal conditions of processing or use.

---

---

NOTICE: The information and recommendations set forth are made in good faith and are believed to be accurate at the date of preparation. Rayovac Corporation makes no warranty expressed or implied.