











# MATERIAL SAFETY DATA SHEET

FILE NO.: SURRETTE DEEP CYCLE WET BATTERY

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### ACUTE TOXICITY (Test Results Basis and Comments):

Sulfuric acid: LD50, Rat: 2140 mg/kg

LC50, Guinea pig: 510 mg/m<sup>3</sup>

Lead: No data available for elemental lead

### SUBCHRONIC/CHRONIC TOXICITY (Test Results and Comments):

Repeated exposure to lead and lead compounds in the workplace may result in nervous system toxicity. Some toxicologists report abnormal conduction velocities in persons with blood lead levels of 50 µg/100 ml or higher. Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues.

### Additional Information

- Very little chronic toxicity data available for elemental lead.
- Lead is listed by IARC as a 2B carcinogen: possible carcinogen in humans. Arsenic is listed by IARC, ACGIH, and NTP as a carcinogen, based on studies with high doses over long periods of time. The other ingredients in this product, present at equal to or greater than 0,1% of the product, are not listed by OSHA, NTP, or IARC as suspect carcinogens.
- The 19 th Amendment to EC Directive 67/548/EEC classified lead compounds, but not lead in metal form, as possibly toxic to reproduction. Risk phrase 61: May cause harm to the unborn child, applies to lead compounds, especially soluble forms.
- The international agency for research on cancer (IARC) has classified “strong inorganic acid mist containing Sulfuric acid” as a category carcinogen, a substance that is carcinogenous to humans. This classification does not apply to liquid forms of Sulfuric acid or Sulfuric acid solutions contained within a battery. Inorganic acid mist (Sulfuric acid mist) is not generated under normal use of this product. Misuse of the product, such as overcharging, may however result in the generation of Sulfuric acid mist.

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## SECTION 12: ECOLOGICAL INFORMATION

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**PERSISTENCE & DEGRADABILITY:** Lead is very persistent in soils and sediments. No data available on biodegradation.

**BIOACCUMULATIVE POTENTIAL (Including Mobility):** Mobility of metallic lead between ecological compartments is low. Bioaccumulation of lead occurs in aquatic and terrestrial animals and plants, but very little bioaccumulation occurs through the food chain. Most studies have included lead compounds, not solid inorganic lead.

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## SECTION 12: ECOLOGICAL INFORMATION continued

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### AQUATIC TOXICITY (Test Results & Comments):

Sulfuric acid: 24-hour LC50, fresh water fish (*Brachydanio rerio*): 82 mg/l

96-hour LOEC, fresh water fish (*Cyprinus carpio*): 22 mg/l

Lead (metal): No data available

### Additional Information

- No known effects on stratospheric ozone depletion.
- Volatile organic compounds: 0% (by Volume)
- Water Endangering Class (WGK): Not Applicable

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** Dispose of as hazardous waste. If battery is leaking, place battery in a heavy-duty plastic bag. Wear acid resistant boots, faceshield, acid resistant apron, and acid resistant gloves.

DO NOT RELEASE UNNEUTRALISED ACID TO SEWER OR WASTE WATER DRAIN

Sulfuric acid: Neutralise, collect residue in a container labelled as containing hazardous waste. Dispose off as a hazardous waste. If uncertain, call the Enirgi Power Storage representative.

DO NOT FLUSH LEAD CONTAMINATED ACID TO SEWER.

Batteries: Send to lead recycle station or contact Enirgi Power Storage representative.

**RCRA HAZARD CLASS: D001 and D008**

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## SECTION 14: TRANSPORT INFORMATION

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**Name:** Battery, Wet, Filled with Acid, Electric Storage

**UN Number :** 2794

**Dangerous Goods Class :** 8

**Packing Group :** III

**Hazchem Code :** 2W



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## SECTION 15: REGULATORY INFORMATION

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**Poison Schedule Number :** S6 under "Standard for Uniform Scheduling of Drugs and Poison"



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## SECTION 16: OTHER INFORMATION

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**PREPARATION INFORMATION:** Prepared by Technical Officer, Enirgi Power Storage April 2011.

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