

# Rolls

## MATERIAL SAFETY DATA SHEET - LEAD ACID BATTERY

### SECTION I - PRODUCT IDENTIFICATION

|                                       |   |   |                                |
|---------------------------------------|---|---|--------------------------------|
| <b>PRODUCT IDENTIFIER:</b>            | Lead Acid Battery   | <b>MANUFACTURER'S NAME &amp; ADDRESS:</b> | Refer to supplier.             |
| <b>PRODUCT USE:</b>                   | Lead Acid Storage Battery   | <b>WHMIS CLASS:</b>                       | D1B, E                         |
| <b>CHEMICAL FAMILY:</b>               | Lead Acid Storage Battery   | <b>HMIS RATING:</b>                       | Health 3, Fire 0, Reactivity 1 |
| <b>SUPPLIER'S NAME &amp; ADDRESS:</b> | Surette Battery Co. Ltd.<br>P.O. Box 2020, 1 Station Road<br>Springhill, NS<br>B0M 1X0 (902) 597-3767 | <b>EMERGENCY PHONE #:</b>                 | CANUTEC (613) 996-6666         |

### SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENTS   | LC <sub>50</sub> , PPM LD <sub>50</sub> , MG/KG | CAS #        | wt. %                 | (Rat, inh.) | (Rat, oral) |
|---------------|---|--------------|-----------------------|-------------|-------------|
| Lead          |   |              |                       |             |             |
| Lead Dioxide  |   | 1309-60-0    | 31                    | n/av        | n/av        |
| Sulfuric Acid |   | 7664-93-9 34 | 510 mg/m <sup>3</sup> | /2Hr        | 2140        |

### SECTION III - PHYSICAL DATA

#### MANUFACTURED ARTICLE:

Physical State, Odour & Appearance: A transparent to opaque case and sealed cover fitted with side or top terminals and vent caps, odourless, colourless.

Odour Threshold: n/ap

Coefficient of Water/Oil Distribution: n/ap

Boiling Point: n/ap

pH: n/ap

Evaporation Rate (n-BuAc=1 .0): n/ap

Solubility in Water (w/w): n/ap

Specific Gravity (at °C): n/ap

Vapour Pressure: n/ap

Melting/Freezing Point: n/ap

Vapour Density (Air=1 .0): n/ap

Volatiles, %: n/av

*Rolls*

**BATTERY ENGINEERING**

MADE IN CANADA • ROLLSBATTERY.COM

*Surette*

**BATTERY COMPANY LIMITED**

I STATION RD • SPRINGHILL, NS  
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1.800.681.9914

## SECTION IV - FIRE AND EXPLOSION DATA

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Conditions of Flammability: n/ap

Means of Extinction: n/ap

Sensitivity to Mechanical Impact/Static Discharge: n/ap

Lower/Upper Flammable Limits (% by volume): n/ap

Auto-Ignition Temperature: n/ap

Hazardous Combustion Products: n/ap

Flash Point (Method): n/ap

Unusual Fire and Explosion Hazards: For battery acid - Evolution of explosive hydrogen gas on contact with most metals.

## SECTION V - REACTIVITY DATA

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Stability: Stable. n/ap

Conditions of Reactivity: n/ap

Incompatible Materials: n/ap

Hazardous Decomposition Products: For battery acid - If heated above 340°C, sulfuric acid will decompose to sulfur trioxide and water.

## SECTION VI - TOXOLOGICAL PROPERTIES

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### ROUTES OF EXPOSURE AND ACUTE/CHRONIC EFFECTS

Exposure Limits: ACGIH-TLV not applicable for this article.

Inhalation: n/ap

Skin Contact: n/ap

Eye Contact: n/ap

Ingestion: n/ap

Chronic Effects: None known.

Carcinogenicity: Lead and lead dioxide are listed as carcinogens, however there is no possibility for exposure under user in normal conditions.

Teratogenicity, Mutagenicity, other Reproductive Effects: n/av

Sensitization to Material: Product is not known to cause allergies.

Synergistic Materials: None known.



## SECTION VII - FIRST AID

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Applies to the battery fluid only:

**Inhalation** – Remove victim to fresh air. If breathing difficulty does not improve rapidly, get patient to a doctor.

**Skin** – Wash skin with mild soap and water. Rinse thoroughly. See a doctor if irritation persists.

**Eyes** – Flush with plenty of water for at least 20 minutes. Get medical attention immediately.

**Ingestion** – Get immediate medical attention. Do not induce vomiting.

## SECTION VIII - PREVENTATIVE MEASURES

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Applies to the battery fluid only:

**Spill, Leak or Release** – Use full protective clothing, including boots and protective equipment. Contain spill in order to prevent contamination of sewage system or waterway. Pump into mark containers for reclamation or disposal. If possible, neutralize on a dry basis with suitable alkali such as lime, soda ash, or sodium bicarbonate, then flush with water in accordance with applicable regulations.

**Waste Disposal** – Consult federal, provincial and local regulations for allowed means of disposal.

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### PROTECTIVE EQUIPMENT

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**Respiratory Protection:** Cartridge type mask or self-contained breathing apparatus approved by NIOSH, depending on exposure.

**Engineering Controls:** Local exhaust is required. Mechanical ventilation (general) - not compulsory.

**Protective Gloves:** PVC or Neoprene.

**Eye Protection:** Chemical splash goggles or face shield.

**Other Protective Equipment:** Depending on exposure and on workplace standards. Safety showers and eye wash station should be installed in storage and handling areas.

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### STORAGE AND HANDLING

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**Handling Procedures and Equipment:** Avoid contact with skin, eyes and clothing. Protect containers from physical damage. Wear protective equipment during handling. When diluting, slowly add acid to water (never water to acid) while stirring to avoid spattering or boiling. Wash thoroughly after handling. Emptied containers retain vapour and product residue.

**Storage Requirements:** Store in a cool, dry area. Store away from sources of ignition. Keep container closed and protect from contact with water to avoid possible violent reaction.

**Special Shipping Instructions:** TDG - Battery fluid, acid, Class 8(9.2), UN2794, P.G. III.



## SECTION IX - PREPARATION INFORMATION

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Prepared by: Surrette Battery Co. Ltd.  
Telephone #: (902) 597-3767  
Preparation Date: 21-Jan-2010

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### Additional Notes or References:

Abbreviations: ACGIH: American Conference of Governmental Industrial Hygienists  
IARC: International Agency for Research on Cancer

n/ap: Not applicable

n/av: Not available

NIOSH: National Institute for Occupational Safety and Health

CC: Tagliabue Closed Cup

WHMIS: Workplace Hazardous Materials Information System

TDG: Transportation of Dangerous Goods Act and Regulations

TLV: Threshold Limit Values

TWA: Time Weighted Average

### References:

1. Van Nostrand Reinhold, Dangerous Properties of Industrial Materials, Seventh Edition, N. Irving Sax
2. Canadian Centre for Occupational Health and Safety. RTECS (Registry of Toxic Effects) and CHEMINFO databases
3. ACGIH, Threshold Limit Values and Biological Exposure Indices for 1997
4. International Agency for Research on Cancer Monographs, Supplement 7, 1988

