I. PRODUCT IDENTIFICATION

Chemical Trade Name (as used on label): Battery Electrolyte

Chemical Family/Classification: Acid / Corrosive

Synonyms: None.

Manufacturer's Name/Address:
EnerSys
P.O. Box 14145
3-61 Parr Boulevard
Bolton, Ontario
L7E 4E3

For information and emergencies, contact EnerSys' Environmental, Health & Safety Dept. at 610-208-1996

Telephone: Environmental, Health & Safety Dept. at 610-208-1996

ECO #: 1002195

II. GHS HAZARDS IDENTIFICATION

Carcinogen Category 1A
Skin Corrosion/Irritation Category 1A

GHS LABEL:

Hazard Statements
DANGER!
May cause cancer from inhalation of mists.
Causes severe skin burns and eye damage.

Precautionary Statements
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dusts or mists.
Wash thoroughly after handling.

Precautionary Statements (cont.)
Rinse skin with water/shower.
Wash contaminated clothing before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

III. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>Approximate % by Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inorganic Lead Compound:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>7664-93-9</td>
<td>30 - 40</td>
</tr>
<tr>
<td>Water (H2O)</td>
<td></td>
<td>60 - 70</td>
</tr>
</tbody>
</table>

IV. FIRST-AID MEASURES

Inhalation: Remove to fresh air immediately. If breathing is difficult, give oxygen. Consult a physician.

Ingestion: Give large quantities of water; do not induce vomiting or aspiration into the lungs may occur and can cause permanent injury or death; consult a physician.

Skin: Flush with large amounts of water for at least 15 minutes; remove contaminated clothing completely, including shoes. If symptoms persist, seek medical attention. Wash contaminated clothing before reuse. Discard contaminated shoes.

Eyes: Flush immediately with large amounts of water for a least 15 minutes; consult physician.

V. FIRE-FIGHTING MEASURES

Flash Point: N/A

Flammable Limits: LEL = N/A  UEL = N/A

Extinguishing Media: CO2; foam; dry chemical; water; water fog.

Special Fire Fighting Procedures:
Water applied to sulfuric acid generates heat and causes acid to splatter. Wear full-cover sulfuric acid resistant clothing.

Unusual Fire and Explosion Hazards:
Reacts violently with metals, nitrates, chlorates, carbindes and other organic materials. Reacts with most metals to yield explosive and flammable hydrogen gas.

VI. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures:
Stop flow of material, contain/absorb small spills with dry sand, earth or vermiculite. Do not use combustible materials. If possible, carefully neutralize spilled electrolyte with soda ash, sodium bicarbonate, lime, etc. Wear acid-resistant clothing, boots, gloves and face shield. Do not allow discharge of unneutralized acid to sewer.

VII. HANDLING AND STORAGE

Handling:
Handle cautiously; avoid contact with skin and eyes. Storage and handling areas should be equipped with proper containment to capture and neutralize spills. In addition, these areas should be equipped with eyewash stations and safety showers.
Medical Conditions Generally Aggravated by Exposure:

Overexposure to sulfuric acid mist may cause lung damage and aggravate pulmonary conditions. Contact of sulfuric acid with skin may aggravate diseases such as eczema and contact dermatitis. Lead and its compounds can aggravate some forms of kidney, liver and neurologic diseases.

Acute Toxicity:

Inhalation LD50:
LC50 rat: 375 mg/m³; LC50: guinea pig: 510 mg/m³

Oral LD50:
rat: 2140 mg/kg

Additional Health Data:

Most inhalation problems can be avoided by adequate precautions such as ventilation and respiratory protection covered in Section 8. Follow good personal hygiene to avoid inhalation and ingestion: wash hands, face, neck and arms thoroughly before eating, smoking or leaving the worksite. Keep contaminated clothing out of non-contaminated areas, or wear cover clothing when in such areas. Restrict the use and presence of food, tobacco and cosmetics to non-contaminated areas. Work clothes and work equipment used in contaminated areas must remain in designated areas and never taken home or laundered with personal non-contaminated clothing. This product is intended for industrial use only and should be isolated from children and their environment.
XII. ECOLOGICAL INFORMATION

Environmental Fate: Aquatic Toxicity:
- Sulfuric acid:
  - 24 hr LC50, freshwater fish (Brachydanio rerio): 82 mg/L
  - 96 hr LOEC, freshwater fish (Cyprinus carpio): 22 mg/L

Environmental Toxicity: Aquatic Toxicity:
- Sulfuric acid:
  - 24-hr LC50, freshwater fish (Brachydanio rerio): 82 mg/L
  - 96 hr LOEC, freshwater fish (Cyprinus carpio): 22 mg/L

Additional Information:
- No known effects on stratospheric ozone depletion.
- Volatile organic compounds: 0% (by Volume)
- Water Endangering Class (WGK): NA

XIII. DISPOSAL CONSIDERATIONS (UNITED STATES)

Place neutralized slurry into sealed containers and handle as applicable with state and federal regulations. Large water-diluted spills, after neutralization and testing, should be managed in accordance with approved local, state and federal requirements. Consult state environmental agency and/or federal EPA.

Following local, State/Provincial, and Federal/National regulations applicable to end-of-life characteristics will be the responsibility of the end-user.

XIV. TRANSPORT INFORMATION

U.S. DOT:
The shipping information is as follows:
- Proper Shipping Name: Battery Fluid, Acid
- Packing Group: II
- Hazardous Class: 8
- Label/Placard Required: Corrosive
- UN Identification: UN2796
- Contact your EnerSys representative for additional information regarding the classification of batteries.

Reference 49 CFR packing instructions: 173.154 or 173.202 or 173.242

IATA Dangerous Goods Regulations DGR:
The shipping information is as follows:
- Proper Shipping Name: Battery Fluid, Acid
- Packing Group: II
- Hazardous Class: 8
- Label/Placard Required: Corrosive
- UN Identification: UN2796

Reference IATA packing instructions Y840 or 851 or 855

IMDG:
The shipping information is as follows:
- Proper Shipping Name: Battery Fluid, Acid
- Packing Group: II
- Hazardous Class: 8
- Label/Placard Required: Corrosive
- UN Identification: UN2796

Reference IMDG Packing instructions P001

XV. REGULATORY INFORMATION

UNITED STATES:

EPA SARA Title III:
Section 302 EPCRA Extremely Hazardous Substances (EHS):
- Sulfuric acid is a listed "Extremely Hazardous Substance" under EPCRA, with a Threshold Planning Quantity (TPQ) of 1,000 lbs.
- EPCRA Section 302 notification is required if 1000 lbs or more of sulfuric acid is present at one site (40 CFR 370.10). For more information consult 40 CFR Part 355. The quantity of sulfuric acid will vary by battery type. Contact your EnerSys representative for additional information.

Section 304 CERCLA Hazardous Substances:
- Reportable Quantity (RQ) for spilled 100% sulfuric acid under CERCLA (Superfund) and EPCRA (Emergency Planning and Community Right to Know Act) is 1,000 lbs. State and local reportable quantities for spilled sulfuric acid may vary.

Section 311/312 Hazard Categorization:
- EPCRA Section 312 Tier Two reporting is required for non-automotive batteries if sulfuric acid is present in quantities of 500 lbs or more and/or if lead is present in quantities of 10,000 lbs or more. For more information consult 40 CFR 370.10 and 40 CFR 370.40.

Supplier Notification:
- This product contains toxic chemicals, which may be reportable under EPCRA Section 313 Toxic Chemical Release Inventory (Form R) requirements.
- If you are a manufacturing facility under SIC codes 20 through 39, the following information is provided to enable you to complete the required reports:

<table>
<thead>
<tr>
<th>Toxic Chemical</th>
<th>CAS Number</th>
<th>Approximate % by Wt</th>
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<td>7664-93-9</td>
<td>30 - 40</td>
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If you distribute this product to other manufacturers in SIC Codes 20 through 39, this information must be provided with the first shipment of each calendar year.

TSCA:
- TSCA Section 8b – Inventory Status: All chemicals comprising this product are either exempt or listed on the TSCA Inventory.
- TSCA Section 12b (40 CFR Part 707.60(b)) No notice of export is required for this product.
- TSCA Section 13 (40 CFR Part 707.20): If you import this product, the following statement must be included on the invoice or entry documentation:
  All chemical substances in this shipment comply with all applicable rules or orders under TSCA. This chemical substance is not offered for entry in violation of TSCA or any applicable rule or order under TSCA.

RCRA:
- Spilled sulfuric acid is characterized as a hazardous waste; EPA hazardous waste number D002 (corrosivity).

CAA:
- EnerSys supports preventative actions concerning ozone depletion in the atmosphere due to emissions of CFC's and other ozone depleting chemicals (ODC's), defined by the USEPA as Class I substances. Pursuant to Section 611 of the Clean Air Act Amendments (CAAA) of 1990, finalized on January 19, 1993, EnerSys established a policy to eliminate the use of Class I ODC's prior to the May 15, 1993 deadline.

STATE REGULATIONS (US):
- Proposition 65:
  Warning: Sulfuric Acid Mist is known to the State of California to cause cancer.
INTERNATIONAL REGULATIONS:
Distribution into Quebec to follow Canadian Controlled Product Regulations (CPR) 24(1) and 24(2).

Distribution into the EU to follow applicable Directives to the Use, Import/Export of the product as-sold.

XVI.  OTHER INFORMATION

Revised:  G

NFPA Hazard Rating for Sulfuric Acid:

<table>
<thead>
<tr>
<th>Flammability (Red)</th>
<th>Reactivity (Yellow)</th>
<th>Health (Blue)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

Sulfuric acid is water-reactive if concentrated

DISCLAIMER
This Safety Data Sheet is created by the manufacturer to comply with the requirements of 29 CFR 1910.1200. To the extent allowed by law, the manufacturer hereby expressly disclaims any liability to any third party, including users of this product, including, but not limited to, consequential or other damages, arising out of the use of, or reliance on, this Safety Data Sheet.