CONCORDE BATTERY
BATTERY ELECTROLYTE

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME: CONCORDE BATTERY CORPORATION
EMERGENCY TELEPHONE NO.: CHEMTEL 800-255-3924
ADDRESS: 2009 San Bernardino Rd., West Covina, CA 91790
PERSON RESPONSIBLE FOR PREPARATION: Steve Delmar
Review/Revision Date: March 18, 2014

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>C.A.S.</th>
<th>PRINCIPAL HAZARDOUS COMPONENT(S) (chemical &amp; common name(s))</th>
<th>Hazard Category</th>
<th>%</th>
<th>ACGIH TLV</th>
<th>OSHA PEL-TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>7664-93-9</td>
<td>Sulfuric Acid (Battery Electrolyte)</td>
<td>Reactive-Oxidizer Acute-Chronic</td>
<td>38</td>
<td>1.0 mg/m³</td>
<td>1.0 mg/m³</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>NA</td>
<td>62</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

NOTE: PEL's for individual states may differ from OSHA PEL's. Check with local authorities for the applicable state PEL's.
OSHA - Occupational Safety and Health Administration; ACGIH - American Conference of Governmental Industrial Hygienists; NIOSH - National Institute for Occupational Safety and Health.

COMMON NAME: (Used on label) Battery electrolyte, Sulfuric acid solution
(Trade Name & Synonyms) Chemical Family: Inorganic acid
Chemical Name: Battery electrolyte Formula: Sulfuric acid and water

SECTION 3 - HAZARD IDENTIFICATION

1. Acute Hazards: Electrolyte - Electrolyte is corrosive and contact may cause skin irritation and chemical burns. Electrolyte causes severe irritation and burns of eyes, nose and throat. Ingestion can cause severe burns and vomiting.

2. Subchronic and Chronic Health Effects: Electrolyte - Repeated contact with sulfuric acid battery electrolyte fluid may cause drying of the skin that may result in irritation, dermatitis, and skin burns. Repeated exposure to sulfuric acid mist may cause erosion of teeth, chronic eye irritation and/or chronic inflammation of the nose, throat and lungs.

California Proposition 65 Warning: During charging of a battery, strong inorganic acid mists containing sulfuric acid are evolved, a chemical Known to the State of California to cause cancer. Wear protective equipment when handling.

Medical Conditions Generally Aggravated by Exposure: If material is spilled, then persons with the following medical conditions must take precautions: pulmonary edema, bronchitis, emphysema, dental erosion and tracheobronchitis.

Routes of Entry: Inhalation - YES Ingestion - YES Eye Contact - YES Skin Contact - YES

Chemical(s) Listed as Carcinogen or potential Carcinogen: Proposition 65 - YES National Toxicology Program - YES I.A.R.C. Monographs - YES OSHA - NO

SECTION 4 - FIRST AID MEASURES

Emergency and First Aid Procedures: Contact with acid if container is opened, broken or spilled.

1. Inhalation: Remove to fresh air and provide medical oxygen/CPR if needed. Obtain medical attention.

2. Eyes: Immediately flush with water for at least 15 minutes, hold eyelids open. Obtain medical attention.

3. Skin: Flush contacted area with large amounts of water for at least 15 minutes while removing contaminated clothing and obtain medical attention if necessary. Excess acid on skin can be neutralized with a 2% solution of bicarbonate of soda.

4. Ingestion: Do not induce vomiting. If conscious drink large amounts of water/milk. Obtain medical attention. Never give anything by mouth to an unconscious person.

SECTION 5 - FIREFIGHTING MEASURES

Flash Point: Not Applicable
Flammable Limits in Air % by Volume: Lower NA Upper NA
Extinguisher Media: Class ABC, CO₂ Auto-Ignition Temperature: NA
The acid mist and vapors generated by heat or fire are corrosive. Use NIOSH approved self-contained breathing apparatus (SCBA) and full protective equipment operated in positive-pressure mode. Use acid protective clothing. May release sulfuric acid, sulfur dioxide gas, carbon monoxide during fire. Water mixed with acid may generate heat and possible splattering.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Cleanup: Stop release, if possible. Avoid contact with any spilled material. Contain spill, isolate hazard area, and deny entry. Limit site access to emergency responders. Neutralize any spilled electrolyte with sodium bicarbonate, soda ash, lime or other neutralizing agent until fizzes stop. CAUTION: CARBON DIOXIDE GAS IS EVOLVED DURING NEUTRALIZATION REACTION. When the reaction stops the pH should be neutral at 6-8. Collect residue and place in a suitable container (polypropylene). Residue may be hazardous waste. Dispose of contaminated material in accordance with applicable local, state and federal regulations. Sodium bicarbonate, soda ash, sand, lime or other neutralizing agent should be kept on-site for spill remediation.

Personal Precautions: Acid resistant gloves, aprons, boots and protective clothing. ANSI approved chemical splash goggles w/face shield recommended. Ventilate enclosed areas.

Environmental Precautions: Sulfuric acid can pose a severe threat to the environment. Contamination of water, soil, and air should be prevented.

SECTION 7 - HANDLING AND STORAGE

Precautions to be Taken in Handling and Storage: Avoid contact with metals, combustibles, and incompatibles. Store in a cool, dry, well-ventilated area with protection against adverse weather conditions.

Other Precautions: GOOD PERSONAL HYGIENE AND WORK PRACTICES ARE MANDATORY. Refrain from eating, drinking or smoking in work areas. Thoroughly wash hands, face, neck, and arms before eating, drinking or smoking. Launder soiled clothing before reuse. Emptyed batteries contain hazardous sulfuric acid residue.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection (Specify Type): Acid gas NIOSH approved respirator is required when the PEL is exceeded or employee experiences respiratory irritation. When exposure levels are unknown or when firefighting, wear a self-contained breathing apparatus with a full facepiece in positive pressure mode.

Ventilation: Use in a well ventilated area. Local Exhaust When PEL is exceeded. Mechanical (General) Normal mechanical ventilation recommended for stationary applications.

Protective Gloves: Wear rubber or plastic acid resistant gloves with elbow length gauntlet when filling batteries. Eye Protection ANSI approved chemical splash goggles w/face shield recommended.

Other Protective Clothing or Equipment: Ventilation as described in the Industrial Ventilation Manual produced by the American Conference of Governmental Industrial Hygienists, shall be provided in areas where exposures are above the PEL or TLV specified by OSHA or other local, state and federal regulations. Acid-resistant rubber or plastic apron, boots and protective clothing. Safety shower and eyewash.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>Electrolyte</th>
<th>Vapor Pressure</th>
<th>Electrolyte 1 mm Hg @ 145.8°F</th>
<th>Specific Gravity 1.285 +/- .010</th>
<th>Electrolyte (H₂O = 1) at STP</th>
<th>Melting Point</th>
<th>Evaporation Rate</th>
<th>Reactivity in Water</th>
<th>Electrolyte - water reactive (1) Exothermic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrolyte</td>
<td>Electrolyte</td>
<td>235°F</td>
<td>Electrolyte 1 mm Hg @ 145.8°F</td>
<td>Electrolyte (H₂O = 1) at STP</td>
<td>Electrolyte - water reactive (1) Exothermic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approx.</td>
<td>Not</td>
<td>Applicable</td>
<td>Hydrogen (Air = 1): 0.069</td>
<td>Exothermic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Electrolyte: 100% Soluble</td>
<td>Exothermic</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Electrolyte: Liquid, colorless, oily fluid; nuisance odor when hot or charging battery</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Reacts violently with water with evolution of heat. Corrosive to metals.

Incompatibility (Materials to Avoid): Organic materials, chlorates, carbides, fulminates, water, metals

Hazardous Decomposition Products: May release sulfuric acid and mist, sulfur dioxide gas, carbon monoxide

Hazardous Polymerization: Has not been reported

Do not overcharge a battery.

SECTION 11 - TOXICOLOGICAL INFORMATION

CHRONIC: CARCINOGENICITY:
The International Agency for Research on Cancer (IARC) has classified “strong inorganic acid mist containing sulfuric acid” as a category 1 carcinogen, a substance that is carcinogenic to humans. “The National Toxicology Program (NTP) has designated strong inorganic sulfuric acid mists as a known human carcinogen.” 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 a battery containing battery electrolyte, may however result in the generation of sulfuric acid mist.

**SECTION 12 - ECOLOGICAL INFORMATION**

Avoid contact with water bodies.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

| Waste Disposal Methods | Battery electrolyte is a hazardous waste by the characteristic of corrosivity. For neutralized spills, place residue in acid-resistant containers with sorbent material, sand or earth and dispose of in accordance with local, state and federal regulations for acid compounds. Contact local and/or state environmental officials regarding disposal information. Acid contained in scrap batteries will be recycled and beneficially reused if the battery is handled through a lead-recycling program. |

**SECTION 14 - TRANSPORT INFORMATION**

**Note:** The shipper has the option of shipping the acid packs Hazmat regulated under UN2796. Additional labeling and paperwork would be required OR the shipper may ship the acid packs using the ORM-D Consumer Commodity exception. See CFR 49 and IATA Dangerous Goods Regulations for more information.

**Consumer Commodities:** ORM-D Shipments

- Exempted from labeling unless offered or intended for transport by aircraft.
- Exempted from specification packaging when packaged in combination packaging.
- Exempted from placarding in these limited quantities.
- Exempted from shipping paper requirements unless offered or intended for transportation by aircraft.

- Package is properly marked on at least 1-side or end with the ORM-D designation immediately following or below the proper shipping name of the material.

- U.S. DOT PROPER SHIPPING NAME: Battery fluid, acid
- U.S. DOT HAZARD CLASS: 8
- U.S. DOT ID NUMBER: UN 2796
- U.S. DOT PACKING GROUP: II
- U.S. DOT LABEL: Corrosive

- IMO PROPER SHIPPING NAME: Battery fluid, acid
- IMO U.N. CLASS: 8
- IMO U.N. NUMBER: UN 2796
- IMO PACKING GROUP: II
- IMO LABEL: Corrosive
- IMO VESSEL STOWAGE: B

- IATA PROPER SHIPPING NAME: Battery fluid, acid
- IATA U.N. CLASS: 8
- IATA U.N. NUMBER: UN 2796
- IATA PACKING GROUP: II
- IATA LABEL: Corrosive
- ERG Code: 8L

**SECTION 15 - REGULATORY INFORMATION**

- U.S. Hazardous Under Hazard Communication Standard: Sulfuric Acid - YES
- Ingredients Listed on TSCA Inventory: YES
- CERCLA Section 304 Hazardous Substance: Sulfuric Acid – YES  RQ: 1000 pounds
- EPCRA Section 302 Extremely Hazardous Substance: Sulfuric acid - YES
- EPCRA Section 313 Toxic Release Inventory: Sulfuric Acid - CAS NO: 7664-93-9

**SECTION 16 - OTHER INFORMATION**

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