



MATERIAL SAFETY DATA SHEET

EFFECTIVE SEPTEMBER , 2003

U.S. BATTERY MFG. CO.
1675 SAMPSON AVE
CORONA, CA. 91719-1889

U.S. BATTERY MFG. CO.
1895 TOBACCO RD.
AUGUSTA, GA. 30906

U.S. BATTERY MFG. CO.
653 INDUSTRIAL PARK DR.
EVANS, GA. 30809

TRANSPORTATION EMERGENCY NO:
INFOTRAC: (800) 535-5053 / INT'L (352) 323-3500

GENERAL INFORMATION NO:
SAFETY DEPT. (909) 371-8090

SECTION I

PRODUCT NAME: BATTERY, WET, FILLED WITH ACID
CHEMICAL NAME: LEAD / ACID STORAGE BATTERY
CHEMICAL FAMILY: TOXIC AND CORROSIVE MATERIAL
FORMULA: LEAD / ACID

SECTION II

| MATERIALS | CAS NUMBER | PERCENT | TLV (units) |
|-------------------|------------|--------------|--------------|
| LEAD / LEAD OXIDE | 7439-92-1 | 60 | 0.05 |
| ANTIMONY ALLOY | 7440-36-0 | 1-5 | 0.5 |
| ARSENIC | 7440-38-2 | LESS THAN 1% | LESS THAN 1% |
| SULFURIC ACID | 7664-93-9 | 10-30 | 10-30 |

SECTION III

PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: APPROX. 203^oF
VAPOR PRESSURE (mm Hg): 10@18^oF
VAPOR DENSITY (air = 1): LESS THAN 1
SOLUBILITY IN WATER: 100%
PERCENT, VOLATILE BY VOLUME(%): 10-30%
EVAPORATION RATE: -1
APPEARANCE AND ODOR: CLEAR LIQUID, PUNGENT ODOR (SHARP PENETRATING ODOR)

SECTION IV

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A
FLAMMABLE LIMITS: LeI 4.0 UeI 74.2
EXTINGUISHING MEDIA: HALON OR DRY CHEMICAL EXTINGUISHER
UNUSUAL FIRE AND EXPLOSION HAZARDS:
HYDROGEN GAS AND SULFURIC ACID VAPORS ARE GENERATED UPON OVERCHARGE.
VENTILATE CHARGING AREAS.

SECTION V

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: SEE SECTION II
EFFECTS OF OVEREXPOSURE: EYES: SERVE BURNS, CORNEA DAMAGE AND BLINDNESS.
SKIN: SERVE IRRITATION, BURNING AND ULCERATION.
INHALATION: BREATHING OF VAPORS OR MIST MAY CAUSE RESPIRATORY DAMAGE.
INGESTION: BURNS TO MOUTH, THROAT AND INTESTINAL TRACT.

SECTION V (continued)

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| EMERGENCY AND FIRST AID PROCEDURES: | EYES: WASH WITH COPIOUS QUANTITIES OF RUNNING WATER FOR 15 MINUTES. |
| SEEK MEDICAL ATTENTION FOR ALL EXPOSURE EMERGENCIES | SKIN: FLUSH AREAS WITH RUNNING WATER FOR 15 MINUTES. |
| | INGESTION: GIVE MILK OR DRINK. DO NOT INDUCE VOMITING. |

SECTION VI

REACTIVITY DATA

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|---------------------------|--|----------|
| STABILITY: | U-3,F-0,S-2,R-W | UNSTABLE |
| CONDITIONS TO AVOID: | AVOID OVERCHARGING AND SMOKING IN THE VICINITY OF CHARGING BATTERIES. AVOID SPARKS. POOR VENTILATION | |
| INCOMPATIBILITY: | WATER: MAY CAUSE ELECTRIC SHOCK AND REACTION. | |
| HAZARDOUS POLYMERIZATION: | WILL NOT OCCUR | |

SECTION VII

SPILL OR LEAK PROCEDURES

IF MATERIAL IS RELEASED OR SPILLED TAKE THE FOLLOWING ACTIONS:
CONTAIN SPILLED MATERIAL, WASH WITH WATER OR NEUTRALIZE WITH SODIUM CARBONATE OR BICARBONATE.
WASTE DISPOSAL METHOD: DISPOSE AS GENERAL WASTE

SECTION VIII

SPECIAL PROTECTION INFORMATION

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| RESPIRATORY PROTECTION: | SULFURIC ACID MIST / HALF MASK RESPIRATOR WITH ACID MIST FILTERS. |
| VENTILATION: | LOCAL EXHAUST PREFERRED MECHANICAL ACCEPTABLE AT 1 TO 4 CHANGES / PER / HOUR |
| PROTECTIVE GLOVES: | LATEX / RUBBER GLOVES |
| EYE PROTECTION: | GOGGLES OR FACE SHIELD |
| OTHER PROTECTIVE EQUIPMENT: | RUBBER OR PLASTIC APRON |

SECTION IX

SPECIAL PRECAUTIONS

WHEN HANDLING AND STORING, KEEP AWAY FROM FLAMES DURING AND IMMEDIATELY AFTER CHARGING.
AVOID PROLONGED OVERCHARGING.

TRANSPORTATION INFORMATION

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|-------------------------|---|
| DOT SHIPPING NAME: | BATTERIES, WET FILLED WITH ACID, ELECTRIC STORAGE |
| IDENTIFICATION NUMBER: | UN 2794 |
| HAZARD CLASS: | 8 |
| SHIPPING LABELS: | CORROSIVE |
| PLACARD (when required) | CORROSIVE |

PROPOSITION 65

WARNING:

LEAD AND IT'S COMPOUNDS ARE CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE REPRODUCTIVE HARM TO BOTH MALES AND FEMALES AND TO CAUSE BIRTH DEFECTS.