



**MATERIAL SAFETY DATA SHEET**

EFFECTIVE JANUARY, 2012

U.S. BATTERY MFG. CO.  
1675 SAMPSON AVE  
CORONA, CA. 92879-1889

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

U.S. BATTERY MFG. CO.  
717 BELAIR RD.  
EVANS, GA. 30809

TRANSPORTATION EMERGENCY NO: INFOTRAC: (800) 535-5053 / INT'L (352) 323-3500  
GENERAL INFORMATION NO: SAFETY DEPT. (951) 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	43 to 70	0.05 mg/m <sup>3</sup>
ANTIMONY ALLOY	7440-36-0	.4 to 1.25	0.5 mg/m <sup>3</sup>
ARSENIC	7440-38-2	LESS THAN .01%	.01 mg/m <sup>3</sup>
SULFURIC ACID	7664-93-9	20-44	1.0 mg/m <sup>3</sup>

**SECTION III**

**PHYSICAL / CHEMICAL CHARACTERISTICS**  
 BOILING POINT: APPROX. 203°F  
 VAPOR PRESSURE (mm Hg): 10@18°F  
 VAPOR DENSITY (air = 1): N/A  
 SOLUBILITY IN WATER: 100%  
 PERCENT, VOLATILE BY VOLUME(%): 10-30%  
 SPECIFIC GRAVITY: 1.145 TO 1.345  
 EVAPORATION RATE: <1.0  
 APPEARANCE AND ODOR: CLEAR LIQUID, PUNGENT ODOR (SHARP PENETRATING ODOR)

**SECTION IV**

**FIRE AND EXPLOSION HAZARD DATA**  
 FLASH POINT: N/A  
 FLAMMABLE LIMITS: Lel 4.0% Uel 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)

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

STABILITY: H-3,F-0,S-W,R-O 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 HAS GENERAL WASTE

SECTION VIII

SPECIAL PROTECTION INFORMATION

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

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 KNOW TO THE STATE OF CALIFORNIA TO CAUSE REPRODUCTIVE HARM TO BOTH MALES AND FEMALES AND TO CAUSE BIRTH DEFECTS.