



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: APPOX. 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: 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.

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: 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 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