



MATERIAL SAFETY DATA SHEET

EFFECTIVE JANUARY, 2008

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 ³
ANTIMONY ALLOY	7440-36-0	.4 to 1.25	0.5 mg/m ³
ARSENIC	7440-38-2	LESS THAN .01%	.01 mg/m ³
SULFURIC ACID	7664-93-9	20-44	1.0 mg/m ³

SECTION III

PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: APPOX. 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.