

**SAFETY DATA SHEET**

Effective January 2015

1 of 4

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 N. BELAIR RD.  
EVANS, GA. 30809

**TRANSPORTATION EMERGENCY NO:**

INFOTRAC: (800) 535-5053 / INT'L (352) 323-3500

24 Hr. Emergency Response - Contract No. 78780 Addr: 200 N. Palmetto St. Leesburg, Fl. 34748

**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

**HAZARD IDENTIFICATION****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>

**GHS PICTOGRAM****CORROSIVE****IRRITANT****NFPA LABEL****DANGER****LEAD****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: &lt;1.0

APPEARANCE AND ODOR: CLEAR LIQUID, PUNGENT ODOR (SHARP PENETRATING ODOR)

**SECTION IV****HEALTH HAZARD DATA****THRESHOLD LIMIT VALUE:**

SEE SECTION II

**EFFECTS OF OVEREXPOSURE:****EYES:** SEVERE BURNS, CORNEA DAMAGE AND BLINDNESS.**SKIN:** SEVERE IRRITATION, BURNING AND ULCERATION.**INHALATION:** BREATHING OF VAPORS OR MIST MAY CAUSE RESPIRATORY DAMAGE.**INGESTION:** BURNS TO MOUTH, THROAT AND INTESTINAL TRACT.

**SECTION IV (cont.)****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 V****FIRE AND EXPLOSION HAZARD DATA - FIRE FIGHTING MEASURES**

**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.** WELL VENTILATED AREAS WITH FRESH AIR FLOW

**SECTION VI****ACCIDENTAL SPILL OR RELEASE PROCEDURES**

IF MATERIAL IS RELEASED OR SPILLED TAKE THE FOLLOWING ACTIONS:

**USE APPROPRIATE P.P.E. (SAFETY GLASSES/GOGGLES, RUBBER GLOVES, RESPIRATOR, ETC.)**

CONTAIN SPILLED MATERIAL, WASH WITH WATER OR NEUTRALIZE WITH SODIUM  
CARBONATE OR BICARBONATE.

**WASTE DISPOSAL METHOD:** IN ACCORDANCE WITH EXISTING REGULATIONS.

**SECTION VII****SAFE HANDLING AND STORAGE**

**RESPIRATORY PROTECTION:** SULFURIC ACID MIST / HALF MASK RESPIRATOR WITH ACID  
MIST FILTERS.

**VENTILATION:** LOCAL EXHAUST PREFERRED, MECHANICAL ACCEPTABLE AT 1 TO 4  
CHANGES PER HR.

**PROTECTIVE GLOVES:** LATEX OR NITRILE RUBBER GLOVES PREFERRED

**EYE PROTECTION:** GOGGLES OR FACE SHIELD

**OTHER PROTECTIVE EQUIPMENT:** RUBBER OR PLASTIC APRON

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

**THOROUGHLY WASH HANDS WITH SOAP AND WARM WATER**

**SECTION VIII****EXPOSURE CONTROLS/PERSONAL PROTECTION**

	<b>TLV's (units)</b>
LEAD / LEAD OXIDE	0.05 mg/m <sup>3</sup>
ANTIMONY ALLOY	0.5 mg/m <sup>3</sup>
ARSENIC	.01 mg/m <sup>3</sup>
SULFURIC ACID	1.0 mg/m <sup>3</sup>

	<b>PEL's (units)</b>
LEAD / LEAD OXIDE	50 mg/m <sup>3</sup>
ANTIMONY ALLOY	2 mg/m <sup>3</sup>
ARSENIC	0.01 mg/m <sup>3</sup>
SULFURIC ACID	1 mg/m <sup>3</sup>

### SECTION VIII (cont.)

**RESPIRATORY PROTECTION:** WHERE ENGINEERING AND WORK PRACTICE CONTROLS DO NOT REDUCE EMPLOYEE EXPOSURE TO OR BELOW THE 50 ug/m<sup>3</sup> PERMISSIBLE EXPOSURE LIMIT, THE EMPLOYER SHALL SUPPLEMENT THESE CONTROLS WITH RESPIRATORS IN ACCORDANCE WITH APPLICABLE REGULATIONS.

**HAND PROTECTION:** LATEX AND/OR NITRILE UNLINED RUBBER GLOVES WITH AT LEAST A 20 MIL, 12" IN LENGTH.

**EYE PROTECTION:** NIOSH SAFETY APPROVED GLASSES WITH SIDE SHIELDS, OR PROTECTIVE GOGGLES OR FACE SHIELD RECOMMENDED.

**OTHER PROTECTIVE EQUIPMENT:** RUBBER OR PLASTIC APRON, STEEL TOED BOOTS/SHOES

### SECTION IX

#### PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT:	APPROX. 203 <sup>o</sup> F
VAPOR PRESSURE (mm Hg):	10@18 <sup>o</sup> 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 X

#### 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 XI

#### TOXICOLOGICAL INFORMATION

##### ROUTES OF EXPOSURE:

**EYES:** SEVERE BURNS, CORNEA DAMAGE AND BLINDNESS COULD OCCUR. FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SEEK IMMEDIATE MEDICAL ATTENTION AFTER RINSING.

**INHALATION:** BREATHING OF VAPORS OR MIST MAY CAUSE RESPIRATORY DAMAGE. REMOVE FROM EXPOSURE TO FRESH COOL AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.

**INGESTION:** BURNS TO MOUTH, THROAT AND INTESTINAL TRACT. IF SWALLOWED, GIVE COPIOUS AMOUNTS OF WATER. **DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.**

##### HEALTH EFFECTS

**ACUTE EFFECTS:** DECREASED APPETITE, INSOMNIA, HEADACHE  
MUSCLE AND JOINT PAIN, COLIC, CONSTIPATION.

**CHRONIC EFFECTS:** WEAKNESS, WEIGHT LOSS, NAUSEA, VOMITING,  
CONSTIPATION, BLUE OR BLACK DOT LIKE  
PIGMENTATION ON THE GUMS (lead line),  
SEVERE HEADACHES, ABDOMINAL CRAMPS,  
DELIRIUM, CONVULSIONS AND COMA.

**SECTION XI (cont.)**

**TOXICITY DATA:** LEAD: NO DATA AVAILABLE  
 SULFURIC ACID: LD50 (RAT: 2140 mg/kg)

**REPRODUCTIVE TOXICITY:** LEAD IS KNOWN TO CAUSE BIRTH DEFECTS IN HUMANS AND ANIMALS.

**WARNING: CARCINOGENIC TO HUMANS (IARC - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER).**

**WARNING: PROPOSITION 65**

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

**SECTION XII****ECOLOGICAL INFORMATION**

LEAD IS VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT. PREVENT SPILLAGE FROM ENTERING DRAINS OR WATERWAYS.

**SECTION XIII****DISPOSAL CONSIDERATIONS**

U.S. E.P.A. DEPARTMENT OF TRANSPORTATION, AND/OR STATE AND LOCAL REGULATIONS SHALL BE FOLLOWED TO ASSURE THAT REMOVAL, TRANSPORT, AND DISPOSAL ARE IN ACCORDANCE WITH EXISTING REGULATIONS.

**SECTION XIV****TRANSPORT INFORMATION**

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

**SECTION XV****REGULATORY INFORMATION**

TSCA REGISTRY  
 CALIFORNIA PROP. 65 WARNING  
 SARA TITLE III  
 FEDERAL CARRIER ACCIDENT REGISTRY  
 CALIFORNIA MOTOR CARRIER PERMIT  
 HAZARDOUS MATERIALS TRANSPORTERS LICENSE  
 MCS-90 ENDORSEMENT

**SECTION XVI****OTHER INFORMATION**

SDS ORIGINALLY PREPARED: 09/10/2013  
 SDS LAST REVISED: 10/16/2013 (SECTIONS 11-16)

FOR FURTHER GUIDANCE IN CHANGES TO THIS SDS, PLEASE CONTACT US BATTERY MFG. CO. SAFETY OFFICE (951) 371-8090.M-F 6:00AM - 2:00PM

**END**