



SAFETY DATA SHEET

Effective January 2015

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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 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

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: <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**

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

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

SECTION VIII (cont.)

RESPIRATORY PROTECTION: WHERE ENGINEERING AND WORK PRACTICE CONTROLS DO NOT REDUCE EMPLOYEE EXPOSURE TO OR BELOW THE 50 ug/m³ 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 ^o F
VAPOR PRESSURE (mm Hg):	10@18 ^o 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