

**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 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



IRRITANT



NFPA LABEL

DANGER

CORROSIVE

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.

SKIN: FLUSH AREAS WITH RUNNING WATER FOR 15 MINUTES.

INGESTION: GIVE MILK OR DRINK. **DO NOT INDUCE VOMITING.**

**SEEK MEDICAL ATTENTION
FOR ALL EXPOSURE EMERGENCIES**

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°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 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 IT'S 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 WATER WAYS.

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