

**SAFETY DATA SHEET**

<b>TRANSPORTATION EMERGENCY NO:</b> INFOTRAC: (800) 535-5053 / INT'L (352) 323-3500 24 Hr. Emergency Response - Contract No. 78780 Addr: 200 N. Palmetto St. Leesburg, Fl. 34748	<b>GENERAL INFORMATION NO:</b> SAFETY DEPT. (951) 273-2200
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**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**

<b>MATERIALS</b>	<b>CAS NUMBER</b>	<b>PERCENT</b>	<b>TLV (units)</b>
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****LEAD****DANGER****SECTION III****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 IV****HEALTH HAZARD DATA**

<b>THRESHOLD LIMIT VALUE:</b>	SEE SECTION II
<b>EFFECTS OF OVEREXPOSURE:</b>	<b>EYES:</b> SEVERE BURNS, CORNEA DAMAGE AND BLINDNESS. <b>SKIN:</b> SEVERE IRRITATION, BURNING AND ULCERATION. <b>INHALATION:</b> BREATHING OF VAPORS OR MIST MAY CAUSE RESPIRATORY DAMAGE. <b>INGESTION:</b> 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: 01/05/2015 (SECTIONS 11-16)

FOR FURTHER GUIDANCE IN CHANGES TO THIS SDS, PLEASE CONTACT  
POWERSTRIDE BATTERY SAFETY OFFICE (951) 273-2200. M-F 7:30AM - 5:00PM

END