

**SAFETY DATA SHEET**

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) 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**

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 ^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 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: 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