

**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

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 LEAD /	CAS NUMBER	PERCENT	TLV (units)
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

NFPA LABEL



CORROSIVE



IRRITANT



LEAD

GHS PICTOGRAM

DANGER

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 PENE 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 **SKIN:** FLUSH AREAS WITH RUNNING WATER FOR 15 MINUTES. **EMERGENCIES**

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°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 KNOW 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: 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

rev.7/29/21

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