



Hazard Rating

REVISED: 02



MATERIAL SAFETY DATA SHEET

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: Battery, Wet, Non-Spillable, Electric Storage, Valve Regulated Lead Battery.	Manufacturer: FULLRIVER BATTERY CORPORATION
Brand Name: Full Throttle Battery	Address: 3823 Mission Oaks Blvd, Suite A, Camarillo, CA 93012, United States
Commercial Name: Sealed Battery	Website: Fullriverbattery.com
Internal Code Electric Accumulator	Email: support@fullriverbattery.com
Synonym: Lead-Acid Battery	Phone: (800) 522-8191
HS Code: 8507.10.10	Fax: (805) 435-1949

Section 2 - HAZARDOUS INGREDIENT INFORMATION

Material is an article. No health effects are expected during normal use of this product as sold. Hazardous exposure may occur when the product is heated, oxidized or otherwise processed, damaged or subjected to misuse. Follow manufacturer's instructions for installation, service and use.

- 2.1 Classification of the substance or mixture:
2.1.1 Classification: Class 8 – Risk Number 80 – ONU 2800 – Subclass Corrosive – Packing group NA.
2.2 Label element and Pictograms:



Effects:

Adverse effects on health are not expected during the normal use of the product. Hazardous exposures may occur when the product is heated, damaged, or subjected to recommended use. Follow the instructions for installation, maintenance, and use.

Hazard Statement:

R56 – Toxic to soil organisms.

Precautionary Statements:

S60 – This product should be disposed of as hazardous waste.
S29/35 – Do not discharge into drains; dispose of this material and its container in a safe way.



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Section 3 - COMPOSITION & INFORMATION

Description of the substances (components) of the product:

CAS#	COMPONENTS	WEIGHT %	Mg/M ³ TLV ACGIH	Mg/M ³ OSHA PEL/TWA	RQ lbs EPA	OTHERS IN Mg/M ³
7439-92-1	Lead	70 - 80	0.15	0.05	1	MSHA ar 0,15 TWA
7664-93-9	Sulfuric Acid	5.5 - 7	1	1	1000	ACGIH STEL 3
7732-18-5	Water	8 - 10	None	None	None	None
9003-07-0	Polypropylene	4 - 10	-	-	-	-

Section 4 - FIRST AID MEASURES

Adverse effects on health are not expected during the normal use of the product for its recommended purpose. Hazardous exposures may occur when the product is heated, oxidized, or otherwise processed, damaged, or subjected to misuse. Always follow the instructions for installation, maintenance, and use.

In case of an accident, the sulfuric acid solution absorbed in the fiberglass mats inside the product can cause irritation. Lead will not cause harm to health if not ingested.

The product contains lead and sulfuric acid solution, and therefore, it should not be permanently disposed of directly on the ground or in watercourses.

Eye Contact:

First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If contact with material occurs flush eyes with water. If signs/symptoms develop, get medical attention.

Inhalation:

First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, move person to fresh air.

Skin Contact:

First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Wash skin with soap and water. If signs/symptoms develop, get medical attention. If exposure to electrolyte (sulfuric acid) occurs, flush with large quantities of water for 15 minutes. Immediately remove contaminated clothing and shoes. If exposure to lead component occurs, wash contaminated skin with plenty of soap and water.

Ingestion:

First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If electrolyte (sulfuric acid) portion of battery is ingested give large quantities, DO NOT induce vomiting. Get medical attention immediately. If lead portion of battery is ingested get medical attention immediately.

Self-Protection of the First Aider:

Do not use mouth-to-mouth methods if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or another proper respiratory medical device.



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Section 5 - FIREFIGHTING MEASURES

Inflammable:

Not Applicable

Ignition Temperature:

Not Applicable

Flash Point:

Not Applicable

Suitable Extinguishing Media:

CO2 or Chemical Powder Extinguisher.

Unrecommended Extinguishing Media:

Avoid the use of water.

Specific Hazards pertaining to the substance or mixture:

To prevent the risk of fire or explosion, keep sparks or other sources of ignition away from the batteries. The product's composition, which includes materials such as Polypropylene, Lead, and Sulfuric Acid Solution, can produce toxic smoke from plastic and metal. The acidic solution is not flammable.

Additional Information:

Highly flammable hydrogen gas is generated during the charging and operation of the batteries.

Protective equipment and precautions for firefighters:

If batteries are on charge, shut off power. Do not allow metallic materials to simultaneously contact negative and positive terminals of cells and batteries. Wear a positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6 - SPILL OR LEAK CONTROL MEASURES

Under normal conditions of recommended use and transportation, there is no risk of spill or leakage. Even in small-scale accidents, there is no risk of significant spill or leakage.

In the case of product ruptures in large quantities, use appropriate protective equipment.

Non-"brigade" individuals:

standard protective equipment.

Emergency team:

personal protective equipment (PPE), such as latex or PVC gloves, protective goggles, acid-resistant clothing, rubber boots, and a suitable respirator if ventilation is insufficient.

Environmental precautions:

To prevent the risk of fire or explosion, keep sparks or other sources of ignition away from the batteries. The product's composition, which includes materials such as Polypropylene, Lead, and Sulfuric Acid Solution, can produce toxic smoke from plastic and metal. The acidic solution is not flammable.



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Methods and material for containment and cleaning up:

Methods for Containment:

To prevent the risk of fire or explosion, keep sparks or other sources of ignition away from the batteries. The product's composition, which includes materials such as Polypropylene, Lead, and Sulfuric Acid Solution, can produce toxic smoke from plastic and metal. The acidic solution is not flammable.

Methods for Cleaning Up:

To prevent the risk of fire or explosion, keep sparks or other sources of ignition away from the batteries. The product's composition, which includes materials such as Polypropylene, Lead, and Sulfuric Acid Solution, can produce toxic smoke from plastic and metal. The acidic solution is not flammable.

Section 7 - PRECAUTIONS FOR HANDLING AND STORAGE

Advice on Safe Handling:

- Handle batteries cautiously.
- Do not tip to avoid spills (if filled with electrolyte).
- Avoid contact with internal components.
- Wear protective clothing when filling or handling batteries.
- Follow manufacturer's instructions for installation and service.
- Do not allow conductive material to touch the battery terminals. Short circuit may occur and cause battery failure and fire.
- Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.
- Eyewash stations and safety showers should be provided with unlimited water supply.
- Handle in accordance with good industrial hygiene and safety practice.

Storage Conditions:

- Store in a cool/low-temperature, well-ventilated place away from heat and ignition sources.
- Batteries should be stored under roof for protection against adverse weather conditions.
- Place cardboard between layers of stacked batteries to avoid damage and short circuits.
- Store batteries on an impervious surface.
- **Storage class:**
 - Class 8B: Non-flammable corrosive materials.

Incompatible materials:

Sulfuric acid: Contact with combustible and organic materials may cause fire and explosion. Also reacts violently with strong reducing agents, metals, sulfur trioxide, strong oxidizers and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flammable hydrogen gas.

Lead compounds: Avoid contact with strong bases, acids, combustible organic materials, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen, reducing agents and water.

Section 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Control Measures:

Store and recharge in a well-ventilated area.

Personal Protective Equipment:

Eye and Face Protection: Not required under normal conditions of recommended use. In the case of a leakage of sulfuric acid solution from the battery, precautions should be taken to avoid contact with the eyes and face. Under conditions of high exposure or serious emergencies, use protective masks (visors with side shields).



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Skin Protection:

Not required under normal conditions of recommended use. In the case of a leakage of sulfuric acid solution from the battery, precautions should be taken to avoid contact with the skin. Under conditions of high exposure or serious emergencies, use latex or PVC gloves, acid-resistant clothing, and boots.

Respiratory Protection:

Not required under normal conditions of recommended use. In the case of a leakage of sulfuric acid solution from the battery, precautions should be taken with the use of appropriate respiratory equipment when the ventilation of the environment is insufficient.

Follow good personal hygiene practices. Keep work areas clean.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

The product has been tested and meets the criteria for sealed valve-regulated batteries according to a report from an accredited organization (SENAI), in compliance with vibration and differential pressure test standards.

The products are individually packaged in cardboard boxes to protect against short circuits.

Appearance of product components:		Boiling Point:	Melting Point:
Polypropylene:	Physical State: Solid Color: Black Odor: Odorless	Not Applicable	> 149° C / 300° F for the boxes and lids
Acid Solution:	Physical State: Liquid Form: Viscous Liquid Color: Colorless Odor: Characteristic Odor pH: Acidic	Steam Point: Not Applicable	Specific mass: 1300 to 1320 g/cm ³ at 25° C/77° F- (electrolyte)
Lead:	Physical State: Solid Color: Gray Odor: Odorless	Appearance:	Product is manufactured in sealed plastic with terminals and flame arrester caps. The color of the case may vary. The product is essentially odorless.
		Percent Volatile by Volume: Not Applicable	Corrosion Rate: Not Verified.

Section 10 - PHYSICAL AND CHEMICAL PROPERTIES

Reactivity:	Not reactive.
Chemical stability:	Stable at normal temperatures and pressures.
Possibility of hazardous reactions:	None under normal processing.
Hazardous Polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	Prolonged overcharge, sources of ignition.



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Incompatible materials:

Sulfuric acid: Contact with combustible and organic materials may cause fire and explosion. Also reacts violently with strong reducing agents, metals, sulfur trioxide, strong oxidizers and water. Contact with metals may product toxic sulfur dioxide fumes and may release flammable hydrogen gas.

Lead compounds: Avoid contact with strong bases, acids, combustible organic materials, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen, reducing agents and water.

Hazardous decomposition products: Lead compounds exposed to high temperatures will likely produce toxic metal fume, vapor or dust; contact with strong acid/base or presence of nascent hydrogen may generate highly toxic arsine gas.

Sulfuric acid: Sulfur oxides (SO_x).

Section 11 - PHYSICAL AND CHEMICAL PROPERTIES

Toxicology Data:

The batteries are sealed. Exposure to Lead and sulfuric acid solution does not occur during normal storage, handling, or when used as recommended.

lead	Exposure can occur when the product is heated to its melting point.
Sulfuric Acid Solution:	Harmful to all human entry routes.
Eye Effects:	Sulfuric Acid Solution: Severe eye irritation. Lead: Does not occur in the solid form.
Skin Effects:	Sulfuric Acid Solution: Extremely irritating. Lead: Does not occur in the solid form.
Ingestion Effects:	Sulfuric Acid Solution: Toxic. Lead: Contamination through ingestion in large doses and prolonged exposure.
Inhalation Effects:	Sulfuric Acid Solution: Irritation of the respiratory mucosa. Lead: Does not occur in the solid form.
Other Information:	Carcinogenic Effects: Not applicable to Sulfuric Acid or sulfuric acid solution contained within the battery.



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Section 12 - PHYSICAL AND CHEMICAL PROPERTIES

Polypropylene	Ecotoxicity Persistence and Degradability Bioaccumulation Potential Behavior in Soil Other Adverse Effects	Ecotoxicology Information: Not determined.
		Distribution: Not determined.
Sulfuric Acid Solution	Ecotoxicity Persistence and Degradability Bioaccumulation Potential Behavior in Soil Other Adverse Effects	Chemical Fate Information: Not determined.
		Ecotoxicology Information: Not determined.
Lead	Ecotoxicity Persistence and Degradability Bioaccumulation Potential Behavior in Soil Other Adverse Effects	Distribution: Not determined.
		Chemical Fate Information: Not determined.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging: Disposal should be in accordance with applicable regional, national and local laws and regulations.

US EPA Waste Number

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Lead 7439-92-1		Included in waste streams: F035, F037, F038, F039, K002, K003, K005, K046, K048, K049, K051, K052, K061, K062, K069, K086, K100, K176	5.0 mg/L regulatory level	

California Hazardous Waste Codes: Not available.

This product contains the following substances that are listed with the State of California as a hazardous waste

C A S #	Chemical Name	California Hazardous Waste Status
7439-92-1	Lead	Toxic
7664-93-9	Sulfuric Acid	Toxic - Corrosive



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Section 14 - TRANSPORT INFORMATION

Land Transport: Risk Number: 80 Risk Class: 8 UN Number: 2800 Proper Shipping Name: BATTERIES, WET, NON-SPILLABLE Packaging Group: NA - Not Applicable Hazard Label: CORROSIVE Safety Panel: 80 - 2800	Air Transport: Risk Number: 80 Risk Class: 8 UN Number: 2800 Proper Shipping Name: BATTERIES, WET, NON-SPILLABLE Packaging Group: NA - Not Applicable Hazard Label: CORROSIVE Safety Panel: 80 - 2800 Special Provision: A48, A67, A164, and A183.	Sea Transport: Risk Number: 80 Risk Class: 8 UN Number: 2800 Proper Shipping Name: BATTERIES, WET, NON-SPILLABLE Packaging Group: NA - Not Applicable Hazard Label: CORROSIVE Safety Panel: 80 - 2800 Pollutant Label: Marine Special Provision: 29, 238
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NOTE: This product is not regulated for domestic transport by land, air or rail. Under 49 CFR 171.8, individual packages that contain lead metal (<100 micrometers) below the reportable quantity (RQ) are not regulated. Under 49 CFR 171.4, except when transporting aboard a vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packaging transported by motor vehicles, rail cars and aircrafts.

DOT	These batteries have been tested and meet the non-spillable criteria listed in CFR49, 173.159 (d) (3) (i) and (ii). Non-spillable batteries are excepted from CFR 49, Subchapter C requirements, provided that the following criteria are met: 1.) The batteries must be protected against short circuits and securely packaged. 2.) The batteries and their outer packaging must be plainly and durably marked "NON-SPILLABLE" or "NONSPILLABLE BATTERY". UN/ID No. UN2800
Proper Shipping Name:	Batteries, wet, non-spillable
Hazard Class:	8
Subsidiary Class:	8
Packing Group:	NA - Not Applicable
Special Provisions:	159 ^a

TDG	These batteries have been tested and meet the non-spillable criteria. Non-spillable batteries are excepted provided that the following criteria are met: 1.) The batteries must be protected against short circuits and securely packages. 2.) The batteries and their outer packaging must be plainly and durably marked "NON-SPILLABLE" or "NONSPILLABLE BATTERY". UN/ID No. UN2800
Proper Shipping Name:	Batteries, wet, non-spillable
Hazard Class:	8
Subsidiary Class:	8
Packing Group:	NA - Not Applicable
Special Provisions:	39

MEX	Not regulated.
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ICAO (air) in	Full Throttle batteries have been tested and meet the non-spillable criteria listed IATA Packing Instruction 872 and Special Provision A67. These batteries are accepted from all IATA regulations provided that the battery terminals are protected against short circuits. The words "Not Restricted, as per Special Provision A67" must be included in the description on the Air Waybill. UN/ID No. UN2800
Proper Shipping Name:	Batteries, wet, non-spillable
Hazard Class:	8
Subsidiary Class:	8
Packing Group:	NA - Not Applicable
Special Provisions:	A48, A67, A164, A183
IATA	Full Throttle batteries have been tested and meet the non-spillable criteria listed in IATA Packing Instruction 872 and Special Provision A67. These batteries are accepted from all IATA regulations provided that the battery terminals are protected against short circuits. The words "Not Restricted, as per Special Provision A67" must be included in the description on the Air Waybill. UN/ID No. UN2800
Proper Shipping Name:	Batteries, wet, non-spillable
Hazard Class:	8
Subsidiary Class:	8
Packing Group:	NA - Not Applicable
Special Provisions:	A48, A67, A164, A183
IMDG	These batteries have been tested and meet the non-spillable criteria listed in IMDG Code Special Provision 238.1 and .2; therefore, are not subject to the provisions of the IMDG Code provided that the battery terminals are protected against short circuits when packaged for transport. UN/ID No. UN2800
Proper Shipping Name:	Batteries, wet, non-spillable
Hazard Class:	8
Subsidiary Class:	8
Packing Group:	NA - Not Applicable
Special Provisions:	A48, A67, A164, A183
Marine Pollutant:	No
RID	Non-spillable batteries are not subject to the requirements of ADR if, at a temperature of 55C, the electrolyte will not flow from a ruptured or cracked case and there is no free liquid to flow and if, as packaged for carriage, the terminals are protected from short circuit. UN/ID No. UN2800
Proper Shipping Name:	Batteries, wet, non-spillable
Hazard Class:	8
Classification Code:	C11
Special Provisions:	238, 295, 598



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Section 14 - TRANSPORT INFORMATION

ADR	Non-spillable batteries are not subject to the requirements of ADR if, at a temperature of 55C, the electrolyte will not flow from a ruptured or cracked case and there is no free liquid to flow and if, as packaged for carriage, the terminals are protected from short circuit. UN/ID No. UN2800
Proper Shipping Name:	Batteries, wet, non-spillable
Hazard Class:	8
Classification Code:	C11
Special Provisions:	238, 295, 598

ADN	Not regulated.
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Section 15 - REGULATORY INFORMATION

Acid Sulfuric Solution:

Symbol C Corrosive;

Phrases S 26-30-36/37/39-45: In case of contact with eyes rinse it immediately with plenty of water and get medical advice. Never add water to this product. Wear protective clothing, gloves and protective eye/face equipment. In case of accident or unwell get medical advice immediately (if possible take the label "Health Risk" which is at the back of the product and show it to the doctor).

Lead:

Symbol T Toxic

N Dangerous for the Environment

Phrases R 61-20/22-33-50/53-62 Risk during pregnancy with adverse effects. Also harmful by inhalation in the form of "smoke" and intake. Danger if cumulative effects. Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment. Possible risk of compromised fertility.

Phrase S 53-45 Avoid exposure - obtain special instructions before use. In case of accident or unwell get medical advice immediately (if possible take the label "Health Risk" which is at the back of the product and show it to the doctor).

Section 16 - REGULATORY INFORMATION

The recommended use of the product and compliance with the measures previously described release Fullriver Battery USA from any responsibility. The indications are based on the current level of our knowledge and serve for the characterization of the product regarding safety measures to be taken.

These indications do not imply any warranty of the properties of the described product.