

AXION POWER BATTERY MFG., INC.

Material Safety Data Sheet

Sealed Lead Acid Battery, Non Spillable, Valve Regulated

Section 1 - Material Identification

Product Name: Sealed Lead Acid Battery; Non Spillable, Valve Regulated.

Common Synonym: Sealed, Non Spillable Motorsports Batteries (Collector Car, 16 Volt Racing, 16 Volt Car Audio)

UN Number: UN2800 (classified as non regulated by special provisions A-48 and A-47 for UN number of UN2800)

CHEMICAL FAMILY: Lead Acid Storage Battery. **EMERGENCY CONTACT:** 724.654.9300 800.535.5053 (24 hrs.)

MANUFACTURER'S NAME / ADDRESS:

Axion Power Battery Manufacturing, Inc.
3601 Clover Lane
New Castle, PA, 16105-0040

Emergency 800 number
is not active for ABP.

Emergency Overview:

Exposure not expected for product under normal conditions of use. In its manufactured and supplied state, the product is considered non-hazardous. Terminals are short circuit protected for shipping purposes. Keep away from flames during and immediately after charge. No significant health effects are associated with the product.

Section 2 - Composition (Hazardous Components)

Components	CAS Number	Approx. Weight Percent	OSHA PEL
Inorganic Lead compounds			
Lead	7439-92-1	65	50 ug/m ³
Calcium	7440-70-2	.03	-----
Tin	7440-31-5	.06	2000
Electrolyte (Sulfuric Acid)	7664-93-9	25	1000
Case / Cover			
Polypropylene	9003-07-0	5	n/a
Hard Rubber	-----	5	---

Section 3 - Hazards Rating

The Hazards rating for the Sealed Lead Acid Battery are:

Hazards Rating (HMIS System)	
Health	1
Flammability	1
Reactivity	0

Section 4 - Hazards Identification

Potential Health Effects

None expected for finished product under normal conditions of use.

Fire and Explosion

The sealed lead acid battery is not considered flammable, but it will burn if involved in a fire. Short circuit can also result in fire. Evacuate area. Self-contained breathing apparatus must be worn to prevent possible inhalation of acid mists, smoke and decomposition products in a fire. Remove all ignition sources. Cool battery(s) to prevent rupture.

Section 5 - First-Aid

Inhalation - Not expected for product under normal conditions of use. However, if acid vapor is released due to overcharging or abuse of the battery, remove exposed person to fresh air. If breathing is difficult, oxygen may be administered. If breathing has stopped, artificial respiration should be started immediately. Seek medical attention.

Eyes - Exposure not expected for product under normal conditions of use. However, if acid from broken battery case enters eyes, flush with water for at least 15 minutes. If irritation develops, seek prompt medical attention.

Skin - Exposure not expected for product under normal conditions of use. However, if acid contacts skin, flush with water and mild soap. If irritation develops, seek medical attention.

Ingestion - Not expected due to physical form of finished product. However, if any materials are ingested, seek prompt medical attention.

Section 6 - Fire-fighting Measures

Extinguishing media - Multipurpose dry chemical or multipurpose CO₂.

Fire fighting procedures - Evacuate area. Self-contained breathing apparatus must be worn to prevent possible inhalation of acid mists, smoke and decomposition products in a fire. Remove all ignition sources. Cool battery(s) to prevent rupture.

Unusual fire and explosion hazards - Hydrogen gas may be produced and may explode if ignited. Remove all ignition sources. Ventilate area.

Section 7 - Accidental Release Measures

In its manufactured and supplied state, the product is manufactured to be leak proof and spill proof even if the container is cracked or punctured. If the battery is crushed in a collision or similar accident, the absorbent glass mat separator may be squeezed causing the release of a small amount of acid electrolyte. Spill or leak cleanup procedures: Avoid contact with acid materials. Use soda ash, baking soda or lime to neutralize acid if released.

Waste disposal: Dispose of in accordance with all local, state, and federal regulations.

Section 8 - Handling and Storage

Handling - Do not carry battery by terminals. Do not drop battery, puncture or attempt to open battery case. Keep away from flames during and immediately after charge. Avoid prolonged overcharges in confined areas.

Storage - Store at ambient room temperature. Do not subject product to open flame or fire. Avoid conditions which could cause arcing between battery terminals.

Hygiene - Wash hands thoroughly before eating or smoking after handling batteries.

Section 9 - Exposure Control

<u>Material</u>	<u>Exposure Limits</u>
Lead compounds	0.05 mg/m ³
Sulfuric Acid Electrolyte	1.00 mg/m ³ OSHA

Section 10 - Personal Protection:

Eye: Not necessary under normal conditions of use for finished product.

Skin: Not necessary under normal conditions of use for finished product.

Respiratory: Not necessary under normal conditions of use for finished product.

Ventilation: Not necessary under normal conditions of use for finished product.

Work Practices: Not necessary under normal conditions of use for finished product.

Section 11 - Physical and Chemical Properties

<u>Boiling Point</u> : 203 – 240 degrees F	<u>Appearance/Odor</u> : The manufactured product has no apparent odor.
<u>Vapor Pressure</u> : 13 – 15 (mm Hg)	<u>Specific Gravity (H₂O=1)</u> : 1.300 – 1.320
<u>Vapor Density (air=1)</u> : >1	<u>Melting Point</u> : N/A
<u>Solubility in water</u> : 100%	<u>Evaporation Rate</u> : <1

Section 12 - Stability and Reactivity

Stability: Stable

Conditions to avoid: Avoid shorting, use only approved charging methods. Do not puncture battery case

Hazardous reactions: N/A

Decomposition Products: N/A

Hazardous Polymerization: Will not occur

Section 13 - Toxicological Information

Threshold limit value: Not applicable for finished product.

Route of entry: Not applicable for finished product under normal conditions of use.

Signs of symptoms of acute exposure: None expected for finished product under normal conditions of use.

Chronic Exposure: None expected for finished product under normal conditions of use.

Medical Conditions aggravated by exposure: None expected for finished product under normal conditions of use.

Effects of overexposure, conditions to avoid: No exposure expected for finished product. However, do not puncture or open battery case. Acid electrolyte may be released. Use only standard charging methods. If overcharged, battery may release gases (Hydrogen and oxygen).

Carcinogen listing: NTS: not IARC: not OSHA regulated: N/A for finished product under normal conditions of use.

Section 14 - Disposal Considerations

Send to a lead recycling facility which follows applicable Federal, State and Local regulations for routine disposition of spent or damaged batteries. The distributor / user is responsible to know that "spent" and/or "damaged" batteries (scrap batteries) are disposed of in an environmentally sound way in accordance with all applicable Federal, State, and Local Environmental Regulations. These Interstate Battery System batteries are 100% recyclable by any licensed reclamation operation.

Section 15 - Regulatory Information

According to the OSHA Hazard Communication Standard, a Sealed Lead Acid Battery in its manufactured and supplied state is considered non-hazardous.

Transportation:

Sealed Lead Acid Battery is not a DOT Hazardous Material.

Section 16 - Supplemental Information

The manufacturer of this finished article cannot foresee every possible use or misuse of the product. However, the following information is supplied:

In its manufactured and supplied state, the product is considered non-hazardous. Excessive overcharging or abuse to the terminals can result in the release of gases (hydrogen and oxygen). As a general practice, batteries should not be used in enclosed, non-ventilated spaces. Avoid immersion in water as it may lead to hydrogen generation. If the battery is crushed in a collision or similar accident, the absorbent separator may be squeezed causing the release of a small amount of acid electrolyte. Neutralize the acid electrolyte with baking soda and flush with plenty of water.