

Battery Builders Inc. • Mfg. Of Industrial Batteries

Material Safety Data Sheet

Section 1. IDENTITY OF MATERIAL

Product Name or Number: Lead/Acid Storage Battery	
Synonyms: Lead/Acid Storage Battery	
Formula: Lead/Acid	CAS Number: N/A Chemical Family: Toxic and Corrosive Material
Regulated Identification	Shipping ID Number: UN 2794 NA 2794 EPA Hazardous Waste ID Number: N/A DOT Proper Shipping Name: Batteries, Electric Storage, Wet Filled with Acid
HAZARDOUS INGREDIENTS	
Lead/Lead Oxide/Lead Sulphate	T.L.V. = 0.05 mg/m ³ % 60
Antimony Compounds	T.L.V. = 0.5 mg/m ³ 1-5
Sulfuric Acid	T.L.V. = 1.0 mg/m ³ 10-30
Under normal conditions of use only the electrolyte and hydrogen gas generated during charge pose a hazard.	

Section 2. HAZARDOUS SPECIFICATIONS

	KNOWN HAZARDS UNDER 29 CFR 1910.1200		T.L.V. (see above)	
	YES	NO	YES	NO
Skin Hazard	X			X
Eye Hazard	X			X
Toxic Agent	X			X
Highly Toxic Agent	X			X
Sensitizer	X			X
Carcinogen	X			X
Reproductive Toxin	X			X
Blood Toxin	X			X
Nervous System Toxin	X			X
Lung Toxin	X			X
Liver Toxin	X			X
Kidney Toxin	X			X

*Hydrogen gas during charging is flammable and explosive.

Section 3. SAFE USAGE DATA

Protective Equipment Types	Eyes: Goggles or face shield Respiratory: Sulfuric Acid Mist—half mask with dust and acid mist filter Gloves: Rubber Gloves Other: Rubber or plastic apron
Ventilation	General Mechanical: Acceptable at 1 to 4 air changes per hour Local Exhaust: Preferred
Precautions	Handling & Storage: Keep away from flames during and immediately after charging Other: Avoid prolonged overcharging

♣ Most states require by law that old batteries be recycled.

Section 4. EMERGENCY RESPONSE DATA

Fire	Extinguishing Media: Special Procedures: Water, Water Fog, Halon or dry chemical Unusual Hazards: Hydrogen gas and sulfuric acid vapors are generated upon overcharging. Ventilate charging areas.
Exposure	First Aid Measures: Eyes: Wash the eyes with large quantities of running water for 15 minutes. Seek medical attention. Skin: Remove contaminated clothing. Flush area at least 15 min. with large amounts of running water. Ingestion: If sulfuric acid has been swallowed and the person is conscious, give him large quantities of water immediately to dilute. Do not attempt to make the exposed person vomit. Seek medical attention.
Spills	Steps to Be Taken: If possible, stop flow of material. Wash with water or neutralize with sodium carbonate or bicarbonate. Waste Disposal Method: Neutralize with sodium carbonate of bicarbonate. Dispose of waste water with all proper discharge laws.

Section 5. PHYSICAL HAZARD DATA

Flammability in Air	LFL: 4.0% UFL: 74.2% Flash Point: N/A Method Used:
Stability	Stable X Unstable Conditions to Avoid: Avoid overcharging and smoking, or sparks near battery surface
Hazardous Polymerization	May occur Will not occur X Conditions to Avoid:
Incompatibility	Materials to Avoid: Combustibles, organic materials, and strong reducing agents

Section 6. HEALTH HAZARD DATA

Effects of Exposure:	Eyes: Severe burns, cornea damage and blindness. Skin: Severe irritation, ulceration. Inhalation: Breathing of vapors or mists may cause respiratory damage. Ingestion: Burns of mouth, throat, and intestinal track.
Entry Route:	Inhale X Ingest X Skin X Eye X
Emergency Treatment:	(See First Aid Measures above)

Section 7. PHYSICAL AND CHEMICAL PROPERTIES

Boiling point:	approx. 203°F Vapor Density (AH 1): Greater than 1 Volatile Components: Hydrogen gas during charging.
Vapor press.:	10mm mercury at 18% H₂SO₄ pH: Less than 1
Solubility in H ₂ O:	100% Will dissolve in:
Appearance:	Clear liquid Evaporation Rate (= 1) IS Material: Powder: Solid: XXX Liquid: XXX Gas:
Odor:	Sharp, penetrating, pungent odor

Section 8. MANUFACTURER & RECYCLER

Manufacturer's Name:	Battery Builders Inc. Emergency Telephone Number: 1-800-535-5053 INFOTRAC
Address:	31W238 91st Street Naperville, IL 60564 Telephone Number for Information: (630) 851-5800 Date Prepared: REVISED JULY 2007
Signature of Preparer (optional):	