



Material Safety Data Sheet

Section 1. IDENTITY OF MATERIAL

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Product Name or Number: Lead/Acid Storage Battery; Industrial Forklift 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		% CAS Number
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 7664-93-9
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	PEL ppm	mg/ml
Skin Hazard	X		Combustible Liquid		X	NFPA Hazard Signal	
Eye Hazard	X		Flammable Material*		X	Health	3
Toxic Agent	X		Pyrophoric Material		X	Flammability	0
Highly Toxic Agent		X	Explosive Material*		X	Stability	0
Sensitizer		X	Unstable Material		X	Reactivity	2
Carcinogen		X	Water Reactive Material	X		DOT Hazard Class: Corrosive Material (8)	
Reproductive Toxin		X	Oxidizer	X			
Blood Toxin		X	Organic Peroxide		X		
Nervous System Toxin		X	Corrosive Material	X		EPA Hazard Waste Class: D002 Corrosivity Characteristics	
Lung Toxin	X		Compressed Gas		X		
Liver Toxin		X	Irritant	X			
Kidney Toxin		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

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.
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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	Conditions to Avoid: Avoid overcharging and smoking, or sparks near battery surface
	Unstable		
Hazardous Polymerization	May occur		Conditions to Avoid:
	Will not occur	X	
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 (AIH 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:	Evaporation Rate (= 1)
Appearance: Clear liquid	IS Material:	Paste: Powder:
Odor: Sharp, penetrating, pungent odor	Solid:	Liquid: XXX Gas:

Section 8. MANUFACTURER & RECYCLER

Manufacturer's Name: GB Industrial Battery / Giant Battery Co. Inc.	Emergency Telephone Number: (877) 4GB-Batt (877-442-2288) 24/7, 365
Address: 9 Ilene Court Hillsborough NJ 08844	Telephone Number for Information: (732) 947-4756
	Date Prepared: REVISED April 2007

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