Gloucester All GNB Batteries

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY *(As Used on Label and List)*
Battery Electric Storage, Wet

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name GNB Incorporated	Emergency Telephone Number 612 681-5000
Address *(Number, Street, City, State, and ZIP Code)* 1110 Highway 110	Telephone Number for Information 612 681-5000
Mendota Heights, MN 55118	Date Prepared January 3, 1990
	Signature of Preparer *(optional)*

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% *(optional)*
Lead Pb	.05 mg/M^3			50%
Electrolyte: H_2SO_4 (Sulphuric Acid and Water)	1.00 mg/M^3			27%

Section III — Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H_2O = 1)	N/A
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	N/A		

Appearance and Odor
Gives off mixture of hydrogen/oxygen gas when on charge.

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	N/A	Flammable Limits	LEL	UEL
Extinguishing Media	Dry Chemical			
Special Fire Fighting Procedures	Ordinary			

Unusual Fire and Explosion Hazards
When on charge and approaching full charge, gases generated are volatile.

Keep sources of ignition (sparks & flames) away.

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (*Materials to Avoid*)

Hazardous Decomposition or Byproducts N/A

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? Electrolyte (H_2SO_4) Skin? X Ingestion? X

Health Hazards (*Acute and Chronic*)
Eye and skin irritation

Carcinogenicity: NTP? None IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure
Stinging and burning sensation to skin and eyes.

Medical Conditions Generally Aggravated by Exposure Exposure to acid mist can aggravate pulmonary conditions.

Emergency and First Aid Procedures
Skin-Flush thoroughly with water. Eyes-Flush immediately with water and ge
prompt medical attention. Continue flushing eyes for at least 15 min. or until medical attention.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled
Apply an equal amount of baking soda, soda ash, caustic soda or equivalent over spilled electrolyte to neutralize it and add water if necessary to fo a slurry. Scoop up slurry.

Waste Disposal Method
Do not dispose of battery. Spent or unusable batteries should be recycled a licensed battery recycler.

Precautions to Be Taken in Handling and Storing
Store with vent side up. Be certain vents are free of dirt etc. to insure air flow.

Other Precautions
Do not short out positive and negative electrodes with a conductor. This may cause a hot electrical spark.

Section VIII — Control Measures

Respiratory Protection (*Specify Type*)

Ventilation	Local Exhaust	Special
	Mechanical (*General*)	Other

Protective Gloves Rubber gloves

Eye Protection Safety goggles or face shield when charging.

Other Protective Clothing or Equipment

Work/Hygienic Practices
Avoid sources of ignition when charging.

* Refer to M.S.D.S. for Sulfuric Acid.