

**MAINTENANCE-FREE  
SEALED LEAD-ACID GELS**



# MATERIAL SAFETY DATA SHEET

Identity (As used on Label and List)

*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

BATTERY MANUFACTURER'S MSDS  
DISTRIBUTED BY:  
DUAL-LITE

MSDS #3

Emergency Telephone Number  
Not applicable

Telephone Number for Information  
Not Applicable

Date Prepared  
Jan. 15, 1996

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 - Negative Electrode - Pb			30-60%
Sulfuric Acid - H <sub>2</sub> SO <sub>4</sub>			10-20%
Lead Dioxide - Positive Electrode - Pb O <sub>2</sub>			5-25%
Lead Sulfate - Positive Electrode - Pb SO <sub>4</sub>			1-25%

## Section III -- Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H <sub>2</sub> O=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	N/A		

## Section IV -- Fire and Explosion Hazard Data

Flash Point (Method Used) Direct Flame	Flammable Limits UL-94HB	LEL N/A	UEL N/A
Extinguishing Media Water, Foam, Dry			
Special Fire Fighting Procedures N/A			
Unusual Fire and Explosion Hazards Keep lighted cigarettes, sparks and flames away. Explosion can result from improper charging and ignition of charging gases. Explosion can result if charged in gas tight enclosure.			

(Reproduce locally)

Fax Doc 5302

**Section V -- Reactivity Data**

Stability	Unstable		Conditions to Avoid Avoid shorting.
	Stable	XX	Use only approved charging methods.

Incompatibility (Materials to Avoid)

Hazardous Decomposition or By-products

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	XX	Do not puncture battery case.

**Section IV -- Health Hazard Data**

Route(s) of Entry:                      Inhalation?                      Skin?                      Ingestion?

Health Hazards (Acute and Chronic)  
Not applicable for finished product used in normal conditions.

Carcinogenicity:                      NTP?                      IARC Monographs?                      OSHA Regulated?

Signs and Symptoms of Exposure

Medial Conditions Generally Aggravated by Exposure  
N/A

Emergency and First Aid Procedures  
Battery contains acid electrolyte. If battery case is punctured, completely flush any released material from skin or eyes with water.

**Section VII -- Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material is Released or Spilled.  
Avoid contact with acid materials. Use soda ash or lime to neutralize. Flush with large amount of water.

Waste Disposal Method  
Place in acid-resistant containers. Dispose in accordance with Federal, State & local regulations. Do not incinerate.

Precautions to Be Taken in Handling and Storing

Other Precautions

**Section VIII -- Control Measures                      Not Applicable for Finished Product**

Respiratory Protection (Specify Type)

Ventilation	Local Exhaust	Special
	Mechanical (General)	Other

Protective Gloves                      Eye Protection

Other Protective Clothing or Equipment

Work/Hygienic Practices