

## Material Safety Data Sheet (M.S.D.S)

### I. Product Identity

Product: Sealed Lead Acid Battery

Manufacturer's Name:

S.S. Sanshui Samtech Battery Co., Ltd  
 Div. of Union Battery Corporation  
 No 8, Xiqing Road, Xinan  
 Sansui, Guandong China

Distributor's Name:

Union Battery Corporation  
 205 Berg Street  
 Algonquin, IL 60102-3501  
 847-854-1295

### II. Hazardous Ingredients

Hazardous Components	CAS No.	OSHA PEL	ACGIH TLV
Lead	7439921	0.050mg/m <sup>3</sup>	0.15mg/m <sup>3</sup>
Lead Oxides	7439921	0.050mg/m <sup>3</sup>	0.15mg/m <sup>3</sup>
38% sulfuric-Acid			
1.280 s.g.			

### III. Physical Properties

Boiling Point	N/A	Specific Gravity	9.5g/cc, 1.28/cc
Vapor Pressure:	N/A	Melting Point:	1634 ° F(approx.)
Vapor Density:	N/A	Evaporation Rate:	N/A
Solubility in H <sub>2</sub> O:	Negligible		
Appearance & Order	N/A		

### IV. Fire/Explosion Hazard Data

Flash Point (Test Method):	N/A
Flammability:	UL 94 HB
Flammable Limits in Air:	Lower N/A Upper: N/A
Extinguishing Media:	Water, Foam, Dry
Special Fire Fighting Procedures:	N/A
Unusual Fire and Explosion Hazard:	Keep lighted cigarettes, sparks Flames away. Explosion can result if charged in gas tight enclosures.

### V. Reactivity Data

Stability:	Stable
Hazardous Polymerization:	Will not occur
Incompatibility (Material to Avoid):	Solvents may dissolve battery case material
Hazardous Decomposition Or Byproducts:	Severe overcharge and overheating may cause sulfur oxide fumes.

## *Material Safety Data Sheet Continued*

### **VI. Health Hazard Data**

<p>Rout(s) of Entry: Health Hazards (Acute &amp; Chronic):</p>	<p>Eyes, Inhalation, Skin and Ingestion Severe burns and eye damage from sulfuric Acid electrolyte. Illness from sulfur oxide Fumes. Contains lead which is known to Cause birth defects or reproductive harm.</p>
<p>Carcinogen city:     N/A IARC:                    No</p>	<p>NTP:                     No OSHA Regulated:     No</p>
<p>Signs &amp; Symptoms of Exposure: Emergency and First Aid Procedures:</p>	<p>Irritation and acid burns.</p>

For sulfur oxide fumes: disconnect batteries, evacuate and ventilate.  
External: flush area contaminated by sulfuric acid electrolyte with water.  
Internal: drink large quantities of water or milk, followed by milk of magnesia, beaten eggs or vegetable oil.

### **VII. Precautions for Handling**

Steps to be taken in case material is released or spilled:  
Avoid contact with sulfuric acid electrolyte from battery. Flush with water.

Waste disposal method:  
Neutralize with solution of baking soda in water. Do not incinerate. Dispose with Automotive battery scrap in accordance with local and federal regulation.

Precautions to be taken in handling and storing:  
Batteries with released electrolyte shall be sealed in polyethylene bags.  
Keep batteries away from children.

Other precautions:  
Do not crack battery cases. Do not overcharge. Do not short circuit battery terminals.  
Keep lighted cigarettes, sparks and flames away from charging batteries.

### **VII. Control Measures**

<p>Respiratory Protection (Specify Type): Ventilation: Protective Glove: Eye Protection: Other protective Clothing Equipment: Work/Hygienic Practies:</p>	<p>N/A Natural Convection Use rubber gloves if case is cracked Recommended N/A N/A</p>
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