

# Safety Data Sheet

## GS Yuasa Battery Ltd.

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SDS No. 078E-120619

Product Name(Chemicals name or Merchandise Name) : Lead-Acid Battery 《Without Electrolyte》				
<b><u>Identification of substance</u></b>				
	Parts	Materials	Mass Proportion	CAS No.
	Plate	Lead	75~90%	7439-92-1
		Lead Compound		-
	Container and lid	Synthetic resin(PP)	10~25%	-
<b>Classification of Hazardousness and Poisonous materials</b>				
	Classification name	Classification standard not applicable to batteries.		
	Hazardousness	Classification standard not applicable to batteries.		
	Poisonous materials	Lead and lead compounds, chemicals known that there are probably carcinogenic to humans(Listed Group2 in IARC).		
	Effect on Environment	Lead adversely affects living things such as animals and plants.		
<b>Emergency Measures</b>				
	Inhalation	Remove from exposure, and have medical treatment.		
	Eye contact	Immediately flush the eye sufficiently with water, and have immediate medical treatment.		
	Skin contact	Immediately wash it down with a large quantity of water, and thoroughly wash the skin with soap.		
	Ingestion	Immediately rinse the mouth with a large quantity of fresh water, and drink another large quantity of fresh water. Then, have immediate medical treatment.		
<b>Action at the Time of Fire</b>				
	Fire fighting action	If batteries are on charge, turn off power. Use positive pressure, self-contained breathing apparatus. Water applied to battery electrolyte generates heat and cause it to spatter. Wear acid-resistant clothing.		

<b>Action at The Time of Lead Outflow</b>			
		Collect leaking and spilled liquid in containers as far as possible. Use face shield, Chemical protection suit, filter respirator for toxic particles and protective gloves.	
<b>Handling and Storing Precautions</b>			
	Handling:	<ul style="list-style-type: none"> <li>• Do not put a fire close to the battery. Do not short it between the terminals.</li> <li>• Charge the battery in a well-ventilated room.</li> </ul>	
	Storing:	Choose a place that is not exposed to high temperatures, high humidity, wind and rain, direct sunlight, fire, poisonous gasses, droplets, dust generation or ingress, or submersion.	
<b>Exposure Inhibiting Device</b>			
<b>Occupational Exposure Limits</b>			
A C G I H ( T L V ) (2004-2005) Lead: T W A 0.05mg/m <sup>3</sup>			
Wear protective clothing when handling batteries. (At that time, be sure to wear protective goggles, gloves, gum boots, and respiratory protection.)			
<b>Physical/ Chemical Properties</b>			
Not applicable to batteries.			
	<b>Materials</b>	<b><u>Lead</u></b>	<b><u>Synthetic resin (PP)</u></b>
	• Outer appearance	Silver white solid	Half transparent milky white Solid
	• Specific gravity	11.3	Approx. 0.9
	• Boiling point	1,740°C	-
	• Melting point	327°C	165°C
<b>Hazardousness information</b>			
As per "Classification of Hazardousness and Poisonous materials" above.			
<b>Poisonous materials information</b>			
As per "Classification of Hazardousness and Poisonous materials" above.			
<b>Environmental information</b>			
As per "Classification of Hazardousness and Poisonous materials" above.			
<b>Disposing precautions</b>			
Used batteries shall be recycled for reuse in accordance with relative national law and regulations.			

**Transporting precautions**

Try to avoid mingling batteries with other substances. Handle with care dropping a battery.

**Applicable laws and regulations**

- Poison and Deleterious Substance Control Law : Lead Compound
- Pollutant Release and Transfer Register Law : Lead and Lead Compound
- Labor Safety and Hygiene Law : Lead
- Hazardous Materials Storage and Ship Transportation Regulations: Not Applicable

	UN Number	No Data	
	Dangerous Goods	No Data	
	Packing Group	No Data	
	Special Provision	No Data	