# **GP** Batteries

# Material Safety Data Sheet

Model No.: GP Silver Oxide cells

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IDENTITY (As Used on Label and List)	TITY (As Used on Label and List) Note : Blank spaces are not permitted if any item is not applicable or no	
Zinc Silver Oxide battery	information is available, the space must be marked to indicate that.	
Section 1- Identification		
Product Name	Zinc Silver Oxide Battery (SR)	
Manufacturer's name, address, telephone	GP Batteries International Ltd.	
number	Address: 7/F, Building 16W, 16 Science Park W	West Avenue, Hong Kong
	Science Park, New Territories, Hong Kong	
	Tel: +852-24843111	
Emergency phone number	Within USA and Canada: 1-1800-424-9300	
	Outside USA and Canada: +1 703-527-3887	
Date of prepared and revision	Jan 1, 2021	
Section 2 – Hazards Identification	n .	

#### Section 2 – Hazards Identification

Improper handling of the battery could lead to distortion, leakage\*, overheating, or explosion and cause human injury or equipment trouble. Especially touch with liquid leaked out of battery could cause injury like a loss of eyesight. Please strictly observe safety instructions.

(\* Leakage is defined as an unintended escape of liquid from a battery.)

### Section 3 – Composition/Information On Ingredients

Ingredient	CAS#	Content (wt %)	
Silver Oxide (Ag2O)	20667-12-3	5 to 45	
Manganese Dioxide (MnO2)	1313-13-9	0 to 30	
Potassium Hydroxide (KOH)	1310-58-3	0 to 5	
Sodium Hydroxide (NaOH)	1310-73-2	0 to 3	
Mercury (Hg)	7439-97-6	Not used	
Zinc (Zn)	7440-66-6	2 to 15	
Carbon (C)	7782-42-5	0 to 5	

#### Section 4 – First Aid Measures

a)	Description of necessary measure, subdivided according to different routes of exposure, i.e., inhalation. Skin and eye
	contact, and ingestion

Inhalation	In the function alation Function and consult a physician.	
Skin Contact	Immediately flush skin with soap and plenty of water. If itch or irritation by chemical burn	
	persists, consult a physician.	
Eye Contact	Immediately flush eye with flowing lukewarm water for a minimum of 15 minutes.	
	Consult a physician immediately.	
Ingestion	If swallowing a battery, consult a physician immediately.	
	If content come into mouth, immediately rinse by plenty of water and consult a physician.	
Most important symptoms/ affects, cauts and deleved.		

b) Most important symptoms/ effects, acute and delayed: N/A

c) Indication of immediate medical attention and special treatment needed, if necessary: Wash with clean water immediately

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### **Section 5 – Fire-Fighting Measures**

a) Suitable (and unsuitable) Extinguishing Media Any class of extinguisher is effective.

b) Special Fire Fighting Procedures
 Protective equipment: Wear self-contained respirator and fully protective impervious suit.
 Not to inhale or not to come into eyes or skin with harmful alkaline mist.
 c) Special Fire and Explosion Hazards

Battery cells may rupture when exposed to excessive heat; this could result in the release of corrosive materials

#### Section 6 – Accidental Release Measures

To contain and clean up leaks or spills: In the event of a battery rupture, prevent skin contact and wipe it with a dry cloth. If the liquid comes into contact with the skin, see section 4 -First Aid Measures.

## Section 7 – Handling and Storage

#### a) Handling

Do not recharge.

Do not puncture or abuse.

Never swallow.

New touch liquid leading from a battery.

Never short-circuit the battery.

Never expose to naked flames - exposing to naked flames can caused the battery to explode.

Never heat.

b) Storage

Store batteries in a dry place. Storing unpackaged cells together could result in cell shorting and heat build-up.

Never store batteries in hot and high humid place.

Never let batteries contact with water.

#### Section 8– Exposure Control / Person Protection

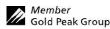
Respiratory protection (Special type):	N/A	
Ventilation:	N/A	
Protective Gloves:	N/A	
Eye Protection:	N/A	
Other Protective Clothing	N/A	

#### **Section 9 - Physical / Chemical Properties**

Button shape with primary cell of 1.55V nominal voltage.

#### Section 10 – Stability and Reactivity

Stable or Unstable:	Stable (Performance deterioration depends on circumstance)	
Incompatibility (Materials to avoid)	N/A	
Hazardous Decomposition or By products:	N/A	
Hazardous Polymerization:	N/A	
Conditions to avoid:	See section 7.	



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### Section 11 – Toxicological Information

As the contents are sealed in battery case, there is no toxicity.

#### Section 12 – Ecological Information

If the battery is disposed of on land or in water, the battery case may corrode and liquid leak from the battery. Ecological information has not been reported.

### Section 13 – Disposal Considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.

The battery may be regulated by national or local regulation. Please follow the instructions of proper regulation.

As electric capacity is left in a discarded battery and it comes into contact with other metals, it could lead to distortion, leakage, overheating, or explosion, so make sure to cover the (+) and (-) terminals with friction tape or some other insulator before disposal.

If you choose to retain discharged batteries and recycle be sure to store them out of the reach of children and pets.

### Section 14 – Transportation Information

TRANSPORTATION-SHIPPING:

These are considered dry-cell batteries and they are non-dangerous and non-hazardous materials for air transport. These batteries must be packed in a way to prevent short circuits or generation of a dangerous quantity of heat.

The battery is not classified as dangerous under current IATA DANGEROUS GOODS REGULATIONS (62nd Edition). ICAO/IATA – See Special Provision A123. This special provision also states to put the words "not restricted" and "special

provision A123" on the air waybill when an air waybill is issued.

#### Section 15 – Regulatory Information

Major environmental regulation is as follows: EU Battery Directive 2006/66/EC(2013/56/EU)

#### Section 16 – Other Information

The data in this Material Safety Data Sheet relates only to the specific material designated herein. However, the data is provided without any warranty; expressed or implied, regarding its correctness or accuracy. It is the user's responsibility to assume liability on loss, injury, damage, or expense resulting from improper use of this product. We urge you to make this information available as appropriate in your organization and to any others with whom you arrange to handle this product.