

## Safety Data Sheet SDS

Ref.No.:GPSDS-GL6F22A-2026A

IDENTITY (As Read on Label and Line) GL6F22A Alkaline Battery	Notice: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
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**Section I –Identification of the substance/preparation and of the company/undertaking**

Manufacturer's Name Golden Power Corporation (HK) Ltd. (Goldtium Jiangmen Energy Products Co. Ltd)	Telephone Number (852) 3125 2288
Address (Number, Sheet, City, State, and ZIP Code) Flat C, 20/F., Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, N.T., Hong Kong (Building 1&2,NO.83 Yongsheng Street,Pengjiang District,Jiangmen City,Guangdong Province,P.R.China)	Fax Number (852) 3125 2000 / 3125 2001
	Date Prepared <b>1 January 2026</b>
	Signature of Preparer (optional)

**Section II –Composition/information on ingredients**

Hazardous Components (Specific Chemical Identity, Common Names)	(contents, %/wt)	CAS No.
Zinc powder (Zn)	25%	7440-66-6
Manganese dioxide (MnO <sub>2</sub> )	21%	1313-13-9
Potassium Hydroxide (KOH)	6%	1310-58-3
Nylon compound (NyLon)	4%	32131-17-2
Acetylene Black (C)	5%	1333-86-4
Polyethylene (PE)	5%	9002-88-4
Pure water (H <sub>2</sub> O)	8%	7732-18-5
Aluminum foil ((C <sub>10</sub> H <sub>8</sub> O <sub>4</sub> ) <sub>n</sub> )	3%	91728-14-2
Calcium stearate (C <sub>36</sub> H <sub>70</sub> CaO <sub>4</sub> )	3%	1592-23-0
Barium sulfate (BaSO <sub>4</sub> )	5%	7727-43-7
Zinc oxide (ZnO)	6%	1314-13-2
Graphite (C)	9%	7782-42-5

**EU Battery Directive 2006-66-EC(2013-56-EU) & US104-142**

Mercury (Hg)	< 0.0001 %	7439-97-6
Lead (Pb)	< 0.0005%	7439-92-1
Cadmium (Cd)	< 0.0005%	7440-43-9

**Section III –Physical and chemical properties**

Boiling Point KOH aqua solution = 140 °C	Specific Gravity (H <sub>2</sub> O=1) MnO <sub>2</sub> = 4.4, Zn = 7.1, KOH = 2.0
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Vapor Pressure (mmHg) KOH aqua solution = 3mmHg at 20 °C		Melting Point MnO <sub>2</sub> decompose at 535 °C Zn = 420 °C, KOH aqua = -35 °C	
Vapor Density (Air = 1)		Evaporation Rate (Butyl Acetate = 1)	

Solubility in Water KOH – complete

Appearance and Color

MnO<sub>2</sub> is a black powder, Graphite is also a black powder, Zinc is a silver metal.

KOH aqua is a colorless liquid with stimulative order.

**Section IV –Fire-fighting measures**

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Incombustible	Not Available		

Extinguishing Media: See Special Fire Fighting Procedure

Special Fire Fighting Procedure: In case of fire in an adjacent area, use water, CO<sub>2</sub> or dry chemical extinguishers if cells are packed in their original containers since the fuel of the fire is basically paper products. For bulk quantities of unpackaged cells use LITH-X (Graphite Base). In this case, do not use water.

As with any fire, wear self-contained breathing apparatus to avoid inhalation of hazardous decomposition products.

Unusual Fire and Explosion Hazards

**Section V –Stability and reactivity**

Stability	Unstable		Conditions to Avoid Do not short circuit, charge or dispose of in fire.
	Stable	<input type="checkbox"/>	

Incompatibility (Materials to Avoid) Hazardous polymerization will not occur.

Hazardous Decomposition or Byproducts Not Available

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	<input type="checkbox"/>	

**Section VI –Toxicological information**

Route(s) of Entry.	Inhalation?	Yes	Skin?	Yes	Ingestion?	Yes
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Health Hazards (Acute and Chronic) These chemicals are contained in a sealed can. Risk of exposure occurs, only if battery is mechanically or electrically abused. The most likely risk is acute exposure when a cell vents KOH is caustic alkali and attack the skin and eyes. Contact of electrolyte with skin and eyes should be avoided.

**Section VII – Ecological Information**

Cardnogenicity    NTP?    Not Available    IARC Monographs? Not Available    OSHA Regulated? Not Available

Signs and Symptoms of Exposure    KOH can cause chemical burn upon contact with skin.

Medical Conditions

Aggravated by Exposure

An acute exposure will not generally aggravate any medical help. Generally

### Section VIII –First-aid measures

In case of skin contact with content of battery, flush immediately with water.

For eye contact, flush with copious amount of water for 10 minutes. If imitation persists, get medical help.

### Section IX - Accidental release measures

Steps to Be Taken in Case Material is Released or Spilled    Wipe out by wet duster.

### Section X - Disposal considerations

General abandonment

### Section XI - Handling and storage

Avoid mechanical or electrical abuse.

### Section XII - Hazards identification

Do not short circuit, charge or dispose of in fire. Battery may explode or leak.

### Section XIII - Exposure controls/personal protection

Respiratory Protection (Specify Type)    Not Available

Ventilation	Local Exhaust	Special
	Not Available	Not Available
	Mechanical (General)	Other
	Not Available	Not Available

Protective Gloves    Butyl    Eye Protection    Safety Glasses

Other Protective Clothing or Equipment

Not Available

Work / Hygienic Practices

Not Available

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**Section XIV – Regulatory Information**

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Not Available

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**Section XV – Other Information**

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Not Available

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**Section XVI – Transportation Information**

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Golden Power “GL6F22A” are considered to be “dry cell” batteries and are not listed as dangerous goods under below regulations:

1. Batteries, dry fulfills the requirement of U.S. Department of Transportation (DOT), Special Provision 130, i.e. they are offered for transportation in a manner that prevents the dangerous evolution of heat (for example, by the effective insulation of exposed terminals or batteries to be packed in such a way to prevent short circuits or generation of a dangerous quantity of heat.)”.
2. International Civil Aviation Administration (ICAO) and International Air Transport Association (IATA Dangerous Goods Regulations 67<sup>th</sup>Edition 2026), Special Provision A123, i.e. “An electrical battery or battery powered device having the potential of dangerous evolutions of heat that is not prepared so as to prevent a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or in the case of equipment, by disconnection of the battery and protection of exposed terminals or batteries to be packed in such a way to prevent short circuits or generation of a dangerous quantity of heat.) is forbidden from transportation.”
3. International Maritime Dangerous Goods Regulations (IMDG) 2024/42-24 edition does not regulate these batteries.

Examples of such batteries include alkali-manganese, silver oxide, zinc carbon, nickel metal hydride and nickel-cadmium batteries.

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