



Safety Data Sheet SDS		Ref.No.:GPSDS-Alkaline-2024A				
IDENTITY (As Read on Label and Line)		Notice: Blank spaces are not permitted. If any item is not				
GLR6A,GLR03A,GLR14A,GLR20A		applicable, or no information is available, the space must				
Power P+US Alkaline Battery		be marked to indicate that.				
Section I –Identification of the su	ubstance/pre	paration and of the company/unde	rtaking			
Manufacturer's Name		Telephone Number				
Golden Power Corporation (HK) Ltd.		(852) 3125 2288				
(Goldtium Jiangmen Energy Products Co. Ltd)						
		Fax Number				
Flat C, 20/F., Block 1, Tai Ping Industrial		(852) 3125 2000 / 3125 20	01			
57 Ting Kok Road, Tai Po, N.T., He	-					
(Building 1&2,NO.83 Yongsheng Stree		Date Prepared 1 January 2024				
District, Jiangmen City, Guangdong Provin	nce,P.R.China)					
		Signature of Preparer (optional)				
Section II -Composition/informa						
Hazardous Components (Specific Chemic	cal Identity, Cor	nmon 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	(H2O)	8%	7732-18-5			
Aluminum foil	((C10H8O4	n)n) 3%	91728-14-2			
Calcium stearate	(C36H70C	aO4) 3%	1592-23-0			
Barium sulfate	(BaSO4)	5%	7727-43-7			
Zinc oxide	(ZnO)	6%	1314-13-2			
Graphite	(C)	9%	7782-42-5			
EU Battery Directive 2006-66-EC(2	2013-56-EU) &	c 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 chemic	al properties					
Boiling Point		Specific Gravity (H <sub>2</sub> O=1)				
KOH aqua solution = 140 °C		$MnO_2 = 4.4$ , $Zn = 7.1$ , $KOH = 2.0$				





Vapor Pressure (mmHg)				Melting Point				
KOH aqua solution	on = $3$ mmHg at $20$ °C			MnO <sub>2</sub> decompo				
				$Zn = 420  ^{\circ}\text{C}, \text{ K}$	OH aqua = -3	5°C		
Vapor Density (Ai	r = 1)			Evaporation Rat	te			
				(Butyl Acetate =				
Solubility in Water	KOH – complete							
Appearance and C	olor							
	MnO <sub>2</sub> is a black	powd	ler, Graphite	e is also a black p	owder, Zinc is	a silver metal.		
КОНа	aqua is a colorless liq	uid wi	th stimulati	ve order.				
Section IV -Fi	re-fighting meas	ures						
Flash Point (Metho	od Used)			Flammable Lim	its	LEL	UEL	
Incom	nbustible			Not A	Available			
Extinguishing N	Media: See Specia	l Fire	Fighting	Procedure				
Special Fire Fighti	ng Procedure: In cas	e of fin	re in an adja	acent area, use w	ater, CO <sub>2</sub> or d	ry chemical ex	xtinguishers if cells are	
packed in their	original containers	since	e the fuel	of the fire is	basically par	per products.	For bulk quantities of	
unpackaged cells	s use LITH-X (Grap	hite I	Base). In th	nis case, do not	use water.			
As with any fire,	wear self-containe	d brea	athing appa	aratus to avoid i	nhalation of l	nazardous dec	omposition products.	
Unusual Fire and I	Explosion Hazards							
~		•						
	bility and reactive	vity	1					
Stability	Unstable		Conditions to Avoid  Do not short circuit, charge or dispose of in f					
	Stable							
- " " "			77 1	4	•11			
Incompatibility (M	laterials to Avoid)		Hazardo	us polymerizati	on Will not o	ccur.		
Hazardous Decom	position or Byproduc	ts	Not Avai	lable				
Hazardous	May Occur		Conditions	ns to Avoid				
Polymerization	-							
,	Will Not Occur							
Section VI -To	xicological infor	matio	on					
	<del>-</del>							
Route(s) of Entry.	Inhalatio	n?	Yes	Skin?	Yes	Ingestion?	Yes	
Haalth Hazz1- / A	outo and Chartie)	T1	nga ahamis-	ola ara sontsin - 1	in a sooled	n Diels of are	OGUPA AAAUS	
Health Hazards (A	· · · · · · · · · · · · · · · · · · ·			als are contained		-		
On	ly if battery is mech		-	-	-		-	
:	when a cell when the skin and eyes sho			isuc aikaii and a	uack me skin	and eyes. Cont	tact of electrolyte	
WI	ui skiii aliu eyes sho	uiu be	avoiucu.					

# $Section \ VII-Ecological \ Information$

## Golden Power



Cardnogenicity	NTP? Not Avai	lable IARC Mo	onographs? N	Not Available	OSHA Regulated? Not Available
Signs and Symptoms	s of Exposure	KOH can cause	e chemical l	ourn upon con	tact with skin.
Medical Conditions Aggravated by Expo	osure	An acute expos	sure will no	generally agg	gravate any medical help. Generally
Section VIII –Fi	rst-aid measure	es			
	n contact with con act, flush with copi	•		•	er. tation persists, get medical
Section IX - Acc	idental release	measures			
Steps to Be Tak	cen in Case Material	is Released or Spi	lled Wip	e out by wet d	luster.
Section X - Disp	osal considerati	ons			
General aban	donment				
Section XI - Hai	ndling and stora	ige			
Avoid mecha	nical or electrical	abuse.			
Section XII - Ha	nzards identifica	tion			
Do not short cire	cuit, charge or disp	pose of in fire. Ba	attery may e	xplode or leak	ς.
Section XIII - E	xposure control	s/personal prot	tection		
Respiratory Protecti	on (Specify Type)	Not Availab	ole		
Ventilation	Local Exhaust Not Avai	lable		Special Not A	vailable
	Mechanical (Gene Not Avai			Other Not A	vailable
Protective Gloves	Butyl		Eye Protec	tion Safe	ety Glasses
Other Protective Clo	othing or Equipment	Not Availa	ble		
Work / Hygienic Pra	actices	Not Availa	ble		



## Corporation (HK) Ltd.

### Section XIV – Regulatory Information

Not Available		
Section XV – Other Information		
Not Available		

## **Section XVI – Transportation Information**

Golden Power "Power P+US Alkaline Battery" 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 65<sup>th</sup>Edition 2024), 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) 2022/41-22 edition does not regulate these batteries.

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