

Golden Power Corporation (HK) Ltd.

Safety Data Sheet SDS		Ref.No	.:GPSDS-Al	kaline-2022A		
IDENTITY (As Read on Label and Line)		Notice: Blank spaces are not permitted. If any item is not				
GLR6A,GLR03A,GLR14A,GLR20A Power P+US Alkaline Battery		applicable, or no information is available, the space mus be marked to indicate that.				
Section I –Identification of the su			kinα			
-	instance/pre	-	any/unuerta	Kilig		
Manufacturer's Name		Telephone Number (852) 3125 2288				
Goldtium Jonamon Engry, Products Co. Ltd.		(832) 3123 2288				
	(Goldtium Jiangmen Energy Products Co. Ltd)					
Address (Number, Sheet, City, State, and ZIP Code) Flat C, 20/F., Block 1, Tai Ping Industrial Centre,		Fax Number (852) 3125 2000 / 3125 2001 Date Prepared				
57 Ting Kok Road, Tai Po, N.T., Hong Kong						
(Building 1&2,NO.83 Yongsheng Stree						
District, Jiangmen City, Guangdong Provin		2 January 2022				
	<u> </u>	Signature of Preparer (optional)				
Section II -Composition/informa	tion on ingr	redients				
Hazardous Components (Specific Chemic	al Identity, Con	mmon Names) (contents,	%/wt)	CAS No.		
Manganese Dioxide	(MnO2)	40.24%)	1313-13-9		
Zinc	(Zn)	16.30%	7440-66-6			
Potassium Hydroxide	(KOH)	5.57%	1310-58-3			
Graphite	(C)	2.54%	7782-42-5			
Water	(H2O)	8.03%		7732-18-5		
Ferrum	(Fe)	23.17%	8053-60-9			
Polyamide	(NyLon)	0.97%	32131-17-2			
Nickel	(NI)	0.21%	7440-02-0			
Copper	(CU)	2.78%	7440-50-8			
Other		0.19%	0.19%			
EU Battery Directive 2006-66-EC(2	013-56-EU) &	& US104-142				
Mercury	(Hg)	< 0.000	7439-97-6			
Lead	(Pb)	< 0.000	7439-92-1			
Cadmium	(Cd)		< 0.0005%			
Section III –Physical and chemic	al propertie	S				
Boiling Point		Specific Gravity (H ₂ O=1)				
KOH aqua solution = 140 °C		$MnO_2 = 4.4$, $Zn = 7.1$, KO	H = 2.0			
Vapor Pressure (mmHg)		Melting Point				
KOH aqua solution = 3mmHg at 20 °C		MnO ₂ decompose at 535 °C				
		$Zn = 420 ^{\circ}\text{C}$, KOH aqua = -				
Vapor Density (Air = 1)		Evaporation Rate (Butyl Acetate = 1)				
Solubility in Water KOH – complete	l	· · · · · ·		•		
Appearance and Color						
MnO ₂ is a black p	owder, Graphit	e is also a black powder, Zinc is	a silver metal.			
		ith stimulative order.				
Section IV –Fire-fighting measur	es	1	T			
Flash Point (Method Used)		Flammable Limits	UEL			



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Incombustible			1	Not Available				
Extinguishing I	Media: See Specia	l Fire	Fighting	Procedu	ıre			l
packed in their unpackaged cells	original containers s use LITH-X (Grap	since hite E	e the fuel Base). In th	of the finis case, d	ire is lo not	basically papuse water.	er products. F	tinguishers if cells are For bulk quantities of mposition products.
Unusual Fire and l	Explosion Hazards							
Section V –Sta	bility and reactiv	vity	1					
Stability	Unstable		Conditions	s to Avoid	Do 1	not short circuit	t, charge or disp	pose of in fire.
	Stable	$\sqrt{}$						
Incompatibility (M	Materials to Avoid)		Hazardo	ous polym	nerizat	ion will not oc	ccur.	
Hazardous Decom	position or Byproduc	ts	Not Ava	ilable				
Hazardous	May Occur		Conditions	s to Avoid				
Polymerization	Will Not Occur	V						
Section VI –To	oxicological infor	matic	on					
Route(s) of Entry.	Inhalatio	1?	Yes	Sk	in?	Yes	Ingestion?	Yes
C 4 VIII 1	when a co	ell ver and e	nts KOH is yes should	caustic al	lkali aı	=	=	sk is acute exposure ontact of electrolyte
	Ecological Inforn			/	~9		OCIIA Da surlata	- 49
Cardnogenicity	NTP? Not Avai							ed? Not Available
Signs and Sympto Medical Condition	-	KU	H can cau	se chemic	cal bu	rn upon contac	et with skin.	
Generally Aggrava		An	acute expo	osure will	l not g	enerally aggra	vate any medi	cal help.
Section VIII –	First-aid measur	es						
	kin contact with contact, flush with copp.							et
Section IX - A	ccidental release	meas	ures					
Steps to Be T	aken in Case Materia	l is Re	leased or S _l	pilled	Wipe	out by wet dus	ster.	
Section X - Dis	sposal considerat	ions						
General aba	andonment							
	andling and stor							
	nanical or electrical							
	Hazards identifica							
Do not shor	t circuit, charge or	dispos	se of in fire	e. Battery	may	explode or leal	k.	
Section XIII -	Exposure control	ls/pei	sonal pr	otection				
Respiratory Protect	ction (Specify Type)		Not Avai	lahle				



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Ventilation	tilation Local Exhaust		Special				
	Not Available		Not Available				
	Mechanical (General)		Other				
	Not Available		Not Available				
Protective Gloves	Butyl	Eye Protec	tion	Safety Glasses			
Other Protective Clot	hing or Equipment						
Not Available							
Work / Hygienic Prac	etices						
	Not Availab	ole					
Section XIV – Regulatory Information							
Not Available							
Section XV – Other Information							
Not Ava	nilable						

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 Regulations63rd Edition 2022), 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)2020/40-20 edition does not regulate these batteries.

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