

Golden Power Corporation (HK) Ltd.

Safety Data Sheet SDS		Ref.No	.:GPSDS-Al	kaline-2021A		
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 mus				
Power P+US Alkaline Ba	be marked to indicate that.					
Section I – Identification of the su	ibstance/pre	-	any/underta	King		
Manufacturer's Name		Telephone Number				
Golden Power Corporation (HK) Ltd.		(852) 3125 2288				
(Goldtium Jiangmen Energy Products Co. Ltd)		Fax Number				
, , , , , , , , , , , , , , , , , , , ,		(852) 3125 2000 / 3125 2001 Date Prepared				
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 Stree						
District, Jiangmen City, Guangdong Provin		1 January 2021				
210010,0 100,		Signature of Preparer (optional)				
Section II - Composition/informa	tion on ingr	redients				
Hazardous Components (Specific Chemic	cal Identity, Con	mmon Names) (contents,	%/wt)	CAS No.		
Manganese Dioxide	(MnO2)	40.24%	1	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%				
EU Battery Directive 2006-66-EC(2	013-56-EU) &	& US104-142				
Mercury	(Hg)	< 0.000	< 0.0001 %			
Lead	(Pb)	< 0.0005%		7439-92-1		
Cadmium	(Cd)	< 0.000	7440-43-9			
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	1	, -		•		
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	,				
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 I	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	ity	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							
Section VI –To	oxicological infor	matio	on					
Route(s) of Entry.	Inhalation	n?	Yes	Sk	in?	Yes	Ingestion?	Yes
Section VII	with skin	and e	yes should			nd attack the sk	in and eyes. Co	ontact of electrolyte
Cardnogenicity	Ecological Inforn NTP? Not Avai			Ionograph	s? Nt.	ot Available	OSHA Regulate	ed? Not Available
Signs and Sympto	11017111					rn upon contac		Not Available
Medical Condition Generally Aggrava	ns					-	vate any medi	cal help.
Section VIII –	First-aid measur	es						
In case of s	kin contact with contact, flush with cop	ntent o						et
Section IX - A	ccidental release	meas	sures					
Steps to Be T	aken in Case Materia	l is Re	leased or Sp	pilled	Wipe	out by wet dus	ster.	
Section X - Dis	sposal considerat	ions						
General aba	andonment							
	andling and stora							
	nanical or electrical							
	Hazards identifica							
	t circuit, charge or					explode or leal	k.	
Section XIII -	Exposure control	ls/pei	rsonal pr	otection				
Respiratory Protect	ction (Specify Type)		Not Avai	lable				



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Ventilation	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 Availal	ole			
Work / Hygienic Prac	etices				
	Not Availal	ole			
Section XIV - Re	egulatory Information				
Not Ava	nilable				
Section XV – Otl	ner 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 Ragulation62st Edition 2021), 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)2018/39-18 edition does not regulate these batteries.

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