

Ref.No.:GPMSDS-LR44GH-2018A

(Material) Safety Data Sheet(M)SDS

IDENTITY (As Read on Label and Line)		Notice: Blank spaces are not permitted. If any item is not				
LR44GH ALKALINE BUTT	ON CELL	applicable, or no information is available, the space must be marked to indicate that.				
Section I						
Manufacturer's Name		Telephone Number				
Golden Power Corporation (H	(K) Ltd.	(852) 3125 2288				
Address (Number, Sheet, City, State, ar	nd ZIP Code)	Fax Number (852) 3125 2000 / 3125 2001				
Flat C, 20/F., Block 1, Tai Ping Industr 57 Ting Kok Road, Tai Po, N.T., Hong		Date Prepared 01-Jan-2018				
		Signature of Preparer (optional)				
Section II – Hazardous Ingredie	nts/Identity	y Information				
Hazardous Components (Specific Chemi						
Manganese Dioxide	(MnO ₂)	30.0 % 1313-13-9				
Zinc	(Zn)	11.0 % 7440-66-6				
Potassium Hydroxide	(KOH)	4.0 % 1310-58-3				
Graphite	(C)	3.0 % 7782-42-5				
Cadmium	(Cd)	<0.0005 % 7440-43-9				
Mercury	(Hg)	<0.0001 % 7439-97-6				
Lead	(Pb)	0.002% 7439-92-1				
Section III – Physical/Chemical Boiling Point KOH aqua solution = 140 °C	Characteri	Specific Gravity ($H_2O=1$) $MnO_2 = 4.4$, $Zn = 7.1$, $KOH = 2.0$				
Vapor Pressure (mmHg) KOH aqua solution = 3mmHg at 20 °C		Melting Point MnO ₂ 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						
KOH aqua is a co	olorless liquid	nite is also a black powder, Zinc is a silver metal. with stimulative order.				
Section IV – Fire and Explosion	Hazard Da					
Flash Point (Method Used) Incombustible		Flammable Limits LEL UEL Not Available				
Extinguishing Media: See Special	Fire Fightin					
are packed in their original container unpackaged cells use LITH-X (Graph	rs since the faite Base). In	adjacent area, use water, CO ₂ or dry chemical extinguishers if cells fuel of the fire is basically paper products. For bulk quantities of this case, do not use water. Aparatus to avoid inhalation of hazardous decomposition products.				
Unusual Fire and Explosion Hazards						



-					RE	ei.No.:GPMSDS-1	JR44GH-ZUI8A
Stability	Unstable	Conditions to Avoid Do not short circuit, charge or dispose of in fire.					
	Stable	V					
Incompatibility (Materials to Avoid)		Hazardous po	lymeriza	tion wi	Ill not occur.	
Hazardous Decor	mposition or Byprod	icts	Not Available)			
Hazardous Polymerization	May Occur		Conditions to Av	oid			
	Will Not Occur	V					
Section VI - I	Health Hazard D	ata					
Route(s) of Entry	/. Inhalatio	n?	Yes	Skin?	Yes	Ingestion?	Yes
Health Hazards (when a	oattery cell v	is mechanically	or elect stic alkal	rically a		osure occurs, y risk is acute exposure Contact of electrolyte
	Ecological Infor	mati					
Cardnogenicity	NTP? Not Ava	ilable	IARC Monogr	raphs? N	ot Avai	lable OSHA Regula	ted? Not Available
Signs and Sympt	•	KO	H can cause che	emical b	urn upo	n contact with skin.	
Medical Condition Generally Aggrav	ons vated by Exposure	An	acute exposure	will not	general	ly aggravate any med	lical help.
In case of For eye co medical he Section IX - I Steps to Be Section X - W	elp. Precautions for S Taken in Case Mater Vaste Disposal M	ontent pious afe H ial is R	of battery, flust amount of wate amount of wate and ling and le deleased or Spilled	h immed er for 10 U se	minutes	vith water. s. If imitation persists wet duster.	s, get
	pandonment	Tal	on in Handlin	a and C	touina		
•	Precautions to Be chanical or electrical			g and S	toring		
	Other Precautio		 				
	ort circuit, charge o		ose of in fire. Ba	atterv ma	ıv explo	ode or leak.	
	- Control Measu				J 1		
Respiratory Prote	ection (Specify Type)		Not Available				
Ventilation	Local Exhaust	Not A	Available	S	pecial	Not Available	;
	Mechanical (Gen		Available	(Other	Not Available	•
Protective Glove	s Butyl	1,001		e Protecti	on	Safety Glasses	
Other Protective	Clothing or Equipme	nt	37				
Work / Hygienic	Practices		Not Available				
Section XIV -	- Regulatory Inf	orma	Not Available	<u>;</u>			
-	Available						
	Other Informat	on					



Golden Power Corporation (HK) Ltd.

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Not Available

Section XVI - Transportation Information

Golden Power **LR44GH** ALKALINE BUTTON CELL 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 Regulation 59th Edition 2018), 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) **2016** edition does not regulate these batteries.

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

注:于2018年1月1日生效