

Stability

Unstable

# Golden Power Corporation (HK) Ltd.

Ref.No.:GPMSDS-A23M-2021A

## (Material) Safety Data Sheet(M)SDS

IDENTITY (As Read on Label and Line)  A23M ECOTOTAL ALKALINE  ALARM 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.				
Section I						
Manufacturer's Name	Telephone Number					
Golden Power Corporation (HK) Ltd.		(852) 3125 2288				
Address (Number, Sheet, City, State, a	Fax Number (852) 3125 2000 / 3125 2001					
Flat C, 20/F., Block 1, Tai Ping Indust 57 Ting Kok Road, Tai Po, N.T., Hong	Date Prepared 01-Jan-2021					
Zhen Hua Iudustries District, Qi Shi I Guangdong People's Republic of China.						
		Signature of Prepa	rer (optional	)		
Section II – Hazardous Ingredie	ents/Identity	Information				
Hazardous Components (Specific Chem			(contents	s, %/wt)	CAS No.	
Manganese Dioxide	(MnO <sub>2</sub> )	<u> </u>	20.76 %	/o	1313-13-9	
Zinc	(Zn)		9.10 %		7440-66-6	
Potassium Hydroxide	(KOH)		2.54 %		1310-58-3	
Graphite	(C)		1.80 %		7782-42-5	
Cadmium	(Cd)		< 0.000		7440-43-9	
Mercury	(Hg)		< 0.000		7439-97-6	
Lead	(Pb)		< 0.002	20 %	7439-92-1	
Section III – Physical/Chemical Boiling Point KOH aqua solution = 140 °C	Characteri	Specific Gravity (I $MnO_2 = 4.4$ , Zn		H = 2.0		
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	2	1			-	
		ite is also a black powith stimulative ord		is a silver me	etal.	
Section IV – Fire and Explosion	Hazard Da	ta				
Flash Point (Method Used) Incombustible		Flammable Limits Not	Available	LEL	UEL	
Extinguishing Media: See Special	Fire Fightir	ng Procedure				
Special Fire Fighting Procedure: In cas are packed in their original contained unpackaged cells use LITH-X (Grap As with any fire, wear self-contained Unusual Fire and Explosion Hazards	ers since the f hite Base). In	fuel of the fire is this case, do not u	basically pa ise water.	iper produc	ts. For bulk quantities o	
Section V – Reactivity Data						

Do not short circuit, charge or dispose of in fire.

Conditions to Avoid



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	Stable	√						
Incompatibility (	Materials to Avoid)	1	Hazardoı	us polymeriz	zation w	rill not occur.		
Hazardous Deco	mposition or Byprod	ucts	Not Avai	lable				
Hazardous	May Occur		Conditions	to Avoid				
Polymerization	Will Not Occur	<b>√</b>						
Section VI –	Health Hazard I	) ata						
Route(s) of Entry	y. Inhalatio	n? ,	Yes	Skin?	Yes	Ingestion?	Yes	
Health Hazards (	Acute and Chronic)			ls are contair		sealed can. Risk of e		
	when a	battery cell ver	is mechan nts KOH is	ically or elec	trically a	abused. The most lik	ely risk is acute exposure es. Contact of electrolyte	
Section VII -	Ecological Info	rmatio	n					
Cardnogenicity	NTP? Not Ava	ilable	IARC Mo	onographs?	Not Ava	ilable OSHA Regu	ulated? Not Available	
	oms of Exposure	KOF	I can caus	e chemical	ourn up	on contact with skin		
Medical Condition Generally Aggra	ons vated by Exposure	An a	cute expo	sure will no	t genera	lly aggravate any m	edical help.	
Section VIII.	-Emergency and	l First	Aid Proc	redures				
In case of For eye co medical he	skin contact with contact, flush with coelp.	ontent opious a	of battery, amount of	flush imme water for 10		with water. es. If imitation persi	sts, get	
	Precautions for S							
Steps to Be	Taken in Case Mater	ial is Re	eleased or S	Spilled Wip	e out by	y wet duster.		
Section X - W	Vaste Disposal M	ethod						
	oandonment							
	Precautions to Bo			dling and	Storing	5		
	chanical or electric		e					
Section XII -	Other Precautio	ns						
Do not sho	ort circuit, charge o	or dispos	se of in fir	e. Battery n	nay expl	ode or leak.		
Section XIII	- Control Measu	res						
Respiratory Prote	ection (Specify Type)	)	Not Avail	able				
Ventilation	Local Exhaust	ıst Not Available			Special			
	Mechanical (Gen		vailable		Other	Not Availal	ole	
	<u> </u>		vailable			Not Availal	ole	
Protective Glove	Bulyi			Eye Protec	tion	Safety Glasses		
Other Protective	Clothing or Equipme	ent	Not Ava	ilable				
Work / Hygienic	Practices							
Section XIV -	- Regulatory Inf	ormati	Not Ava ion	nable				
-	Available							
	Other Informat	ion						
		-						



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Not Available

### **Section XVI – Transportation Information**

Golden Power **A23M** ECOTOTAL ALKALINE ALARM 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 Regulation 62th 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.