

## Golden Power Corporatin (HK) Ltd.

Victory Battery (Dongguan) Industries Co.,Lts.

Ref.No.:GPMSDS-A23M-2023A

## (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.		0769-86	5661510				
Dongguan Victory Battery Industries							
Co.,Ltd.							
Address (Number, Sheet, City, State, and ZIP Code)		Fax Number 0769-86661504					
Zhen Hua Iudustries District, Qi S Dongguan, Guangdong People's Republic of China.	Date Prepared 01-Jan-2023						
	Signature of Preparer (optional)						
Section II – Hazardous Ingredients/Id	lentity	Information					
Hazardous Components (Specific Chemical Ide	ommon Names) (contents	, %/wt)	CAS No.				
Manganese Dioxide (Mr	$1O_2$ )	20.76 %	)	1313-13-9			
Zinc (Zn	/	9.10 %	-	7440-66-6			
Potassium Hydroxide (KC	/	2.54 %		1310-58-3			
Graphite (C)		1.80 %		7782-42-5			
Cadmium (Cd	)	< 0.000	5 %	7440-43-9			
Mercury (Hg)		< 0.000	7439-97-6				
Lead (Pb)		< 0.002	7439-92-1				
Section III – Physical/Chemical Char	acteris						
Boiling Point KOH aqua solution = 140 °C		Specific Gravity (H <sub>2</sub> O=1) MnO <sub>2</sub> =4.4, Zn = 7.1, KOI					
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 = $-3$					
		Evaporation Rate (Butyl Acetate = 1)					
Solubility in Water KOH – complete							
KOH aqua is a colorless	liquid v		s a silver metal.				
Section IV – Fire and Explosion Haza	rd Dat	ta					
Flash Point (Method Used) Incombustible	Flammable Limits Not Available	LEL	UEL				
Extinguishing Media: See Special Fire I	Fightin	g Procedure	市志	SIN BO			
Special Fire Fighting Procedure: In case of fire are packed in their original containers sinc unpackaged cells use LITH-X (Graphite Ba As with any fire, wear self-contained breath Unusual Fire and Explosion Hazards	the function the function the second se	uel of the fire is basically parties the set of the fire is basically parties the set of	per products.	For bulk quantities of			

# **GoldenPower**<sup>•</sup>

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Section V – R	eactivity Data										
Stability	Unstable	Conditions to Avoid Do not short circuit, charge or dispose of in fire.					se of in fire.				
	Stable										
Incompatibility (I	Materials to Avoid)		Hazardous	s polymeriz	zation will	l not occur.					
Hazardous Decomposition or Byproducts Not Available											
Hazardous Polymerization	May Occur		Conditions to	o Avoid							
1 orymenzation	Will Not Occur										
Section VI – Health Hazard Data											
Route(s) of Entry	. Inhalation	n?	Yes	Skin?	Yes	Ingestion?	Yes				
Health Hazards (Acute and Chronic)       These chemicals are contained in a sealed can. Risk of exposure occurs, only if battery is mechanically or electrically abused. The most likely risk is acute exposure when a cell vents KOH is caustic alkali and attack the skin and eyes. Contact of electrolyte with skin and eyes should be avoided.											
Section VII –	<b>Ecological Infor</b>	matio	on								
Cardnogenicity	NTP? Not Avai	lable	IARC Mor	nographs?	Not Availa	able OSHA Regulated?	Not Available				
Signs and Sympto	-	KO	H can cause	chemical	burn upon	contact with skin.					
Medical Conditions Generally Aggravated by ExposureAn acute exposure will not generally aggravate any medical help.											
Soction VIII	-Emergency and	First	Aid Proce	duras							
	skin contact with co				diatelv wi	ith water.					
For eye co	ntact, flush with co					If imitation persists, ge	t				
medical he	lp. Precautions for S	ofo U	andling on	d Uso							
	Taken in Case Mater		8	:11 . J							
				Wig	be out by w	wet duster.					
	aste Disposal Mo	etnoa	L								
	andonment	Tala		ling and	Starin a						
	Precautions to Be hanical or electrica			ing and	Storing						
	Other Precaution										
			oso of in fire	Pottory n	ny avalo	de or leek					
Do not short circuit, charge or dispose of in fire. Battery may explode or leak.  Section XIII - Control Measures											
Ventilation	Local Exhaust		Not Availab	ble	Special						
ventilation			vailable			Not Available					
	Mechanical (Gene	Mechanical (General) Not Available			Other	Not Available					
		Eye Protec	tion	Safety Glasses							
Other Protective	Clothing or Equipme	nt	Not Availa	able		BATTERY INDU STA					
Work / Hygienic	Practices		Not Availa		10	康莞	No.				
Section XIV – Regulatory Information											
Not Available											
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#### **Section XV – Other Information**

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 64<sup>th</sup>Edition 2023), 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."
- 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.

