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IDENTITY (As Used on Label and List)	Note: Blank spaces are not permitted if any item is not applicable or no
Alkaline batteries	information is available, the space must be marked to indicate that.
Section 1- Identification	
Manufacturer's Name	Emergency Telephone Number
GPI International Ltd.	
Address ( Number, Street, City State, and	Telephone Number for information
ZIP Code)	852-2484-3333
7/F, Building 16W, 16 Science Park West	
Avenue	
	Date of prepared and revision
Hong Kong Science Park, New Territories.	Jan 1, 2017
H.K.	
	Signature of Prepare (optional)

## Section 2 - Hazards Identification

Classification

N.A.

Section 3 – Composition/Information On Ingredients				
Hazardous Components:				
Description:	CAS#	EINECS No.	Approximate % of total weight	
Lead	7439-92-1	231-106-7	<0.004Wt%	
Mercury	7439-97-6	231-106-7	<0.0001Wt%	
Cadmium	7440-43-9	231-152-8	<0.002Wt%	
Manganese Dioxide	1313-13-9	215-202-6	~40Wt%	
Zinc Metal	7440-66-6	231-175-3	~16Wt%	
Potassium hydroxide	1310-58-3	215-181-3	~18Wt%	

## Section 4 - First Aid Measures

First Aid Procedures

If electrolyte leakage occurs and makes contact with skin, wash with plenty of water immediately.

If electrolyte comes into contact with eyes, wash with copious amounts of water for fifteen (15) minutes, and contact a physician.

If electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops. Ventilate the contaminated area.

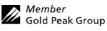


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Section 5 - Fire-Figh	nting Measures			
Flash Point (Method Used)	Ignition Temp.	Flammable Limits	LEL	UEL
N.A.	N.A.	N.A.	N.A.	N.A.
Extinguishing Media	1	1	-	
Carbon Dioxide, Dry	Chemical or Foam ex	xtinguishers		
Special Fire Fighting Proced	ures			
N.A.				
Unusual Fire and Explosion	Hazards			
Do not dispose of bat	tery in fire - may exp	lode.		
Do not short-circuit b	attery - may cause bu	ırns.		
Section 6 – Accident	al Release Mea	sures		
Steps to Be Taken in Case M				
Batteries that are lea	kage should be handl	ed with rubber gloves.		
Avoid direct contact				
		ressure Self-Contained Br	eathing Annaratus (	SCRA)
		ressure Sen-Contained Di		ЭСБА).
Section 7 – Handling				
Safe handling and storage ad	vice			
Batteries should be	handled and stored o	carefully to avoid short cir	cuits.	
Do not store in disc	orderly fashion, or all	ow metal objects to be mi	xed with stored batte	eries.
Never disassemble	a battery.			
Do not breathe cell	vapors or touch inter	rnal material with bare ha	nds.	
				ture allowed is 60°C for a
		wise the cells maybe leak	•	



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	B- Exposure Co		Person P	rotection		
Occupationa	l Exposure Limits:	LTEP		STEP		
	1	N.A.			N.A.	
Respiratory l	Protection (Specify Ty	pe)				
		N.A.				
Ventilation	Local Exhausts			Special		
		N.A.	N.A.		N.A.	
	Mechanical (Gene	ral)		Other		
		N.A.			N.A.	
Protective Gloves		Eye Protection				
	N.A.				N.A.	
Other Protec	tive Clothing or Equip	ment				
	N.A.					
Work / Hygi	enic Practices					
,,,	N.A.					
Section 0	- Physical / Ch	mical	Dropartic	e		
Boiling Point		- IIIICai		vity $(H_2O=1)$		
	N.A.		_		N.A.	
Vapor Pressure (mm Hg) N.A.  Melting Poi		nt	N.A.			
Vapor Densit			Evaporation	Rate (Butyl Acetat		_
0.1.1.114 11	N.A.				N.A.	
Solubility in	water N.A.					
Appearance a			~			
Section 1	0 – Stability and	l Roac	•	al Shape, odorless		
Stability	Unstable	licaci	Conditions	to Avoid		
	G. 11					
	Stable	X				
Incompatibili	ty (Materials to Avoid					
Hazardous D	ecomposition or Bypr	oducts				
Hazardous Polymerizati on	May Occur		Conditions	to Avoid		
	Will Not Occur	X				
	+					





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**Section 11 – Toxicological Information** 

Route(s) of Inhalation? Skin? Ingestion?

Entry N.A. N.A. N.A.

Health Hazard (Acute and Chronic) / Toxiclogical information

In case of electrolyte leakage, skin will be itchy when contaminated with electrolyte.

In contact with electrolyte can cause severe irritation and chemical burns.

Inhalation of electrolyte vapors may cause irritation of the upper respiratory tract and lungs.

## Section 12 - Ecological Information

N.A.

## Section 13 - Disposal Considerations

Dispose of batteries according to government regulations.

#### **Section 14 – Transportation Information**

In general, all batteries in all forms of transportation (ground, air, or ocean) must be packaged in a safe and responsible manner. Regulatory concerns from all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in "strong outer packaging" that prevents spillage of contents. All original packaging for GP alkaline batteries has been designed to be compliant with these regulatory concerns.

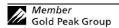
Alkaline batteries (sometimes referred to as "Dry cell" batteries) are not listed as dangerous goods under the ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road, the IMDG International Maritime Dangerous Goods Code, UN Dangerous Good Regulations, IATA Dangerous Goods Regulations 58th edition, ICAO Technical Instructions and the U.S. hazardous materials regulations (49 CFR). These batteries are not subject to the dangerous goods regulations provided they meet the requirements contained in the following special provisions

. Regulatory Body	<b>Special Provisions</b>
ADR	Not regulated
IMDG	Not regulated
UN	Not regulated
US DOT	49 CFR 172.102 Provision 130
IATA	A123
ICAO	Not regulated

All GP alkaline batteries are packed in such a way to prevent short circuits or the generation dangerous quantities of heat and meet the special provisions listed above. In addition, the IATA Dangerous Goods Regulations and ICAO Technical Instructions require the words "not restricted" and the Special Provision number A123 be provided on the air waybill, when an air waybill is issued.

#### **Section 15 – Regulatory Information**

Special requirement be according to the local regulatories.





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## Section 16 - Other Information

The data in this Material Safety Data Sheet relates only to the specific material designated herein.

## Section 17 - Measures for fire extinction

In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.

Fire fighters should wear self-contained breathing apparatus.