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IDENTITY (As Used on Label and List) Alkaline batteries	Note: 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 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
8/F GP Building, 30 Kwai Wing Road,	
	Date of prepared and revision
Kwai Chung, N.T. H.K.	Jan 2, 2014
	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.

GP Batteries

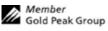
Material Safety Data Sheet for GP Cylindrical Alkaline Battery

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Section 5 - Fire-Figh	iting Measures					
Flash Point (Method Used)	Ignition Temp.	Flammable Limits	LEL U	JEL		
N.A.	N.A.	N.A.	N.A.	N.A.		
Extinguishing Media						
Carbon Dioxide, Dry	Chemical or Foam extir	nguishers				
Special Fire Fighting Proced	ures					
N.A.						
Unusual Fire and Explosion	Hazards					
Do not dispose of batt	ery in fire - may explod	le.				
Do not short-circuit ba	attery - may cause burns	S.				
Section 6 – Accident	al Release Measi	ıres				
Steps to Be Taken in Case M						
Ratteries that are leal	kage should be handled	with rubber gloves				
Avoid direct contact		with rubber groves.				
	•	cum Salf Contained Da	acthing Amonatus (SCDA	<u>, </u>		
		sure Sen-Contained Die	eathing Apparatus (SCBA).		
Section 7 – Handling	and Storage					
Safe handling and storage adv	vice					
Batteries should be	handled and stored care	efully to avoid short circ	cuits.			
Do not store in disc	orderly fashion, or allow	metal objects to be mix	xed with stored batteries.			
Never disassemble		.				
	vapors or touch internal	l material with hare har	ds			
			maximum temperature all	lowed is 60 for a		
		-	-			
short period during	short period during the shipment. Otherwise the cells maybe leakage and can result in shortened service life					



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Section 8	B- Exposure Co	ntrols /	Person P	rotection		
Occupationa	l Exposure Limits:	LTEP		STEP		
N.A.				N.A.		
Respiratory 1	Protection (Specify Ty	pe)		1		
]	N.A.				
Ventilation Local Exhausts				Special		
	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		l		
	N.A.					
Work / Hygi	enic Practices					
,,	N.A.					
Section 9	- Physical / Che	emical	Properties	e		
Boiling Point		<u> </u>		vity (H ₂ O=1)		
	N.A.				N.A.	
Vapor Pressure (mm Hg) N.A.		Melting Poir	nt	N.A.		
		Evaporation	Evaporation Rate (Butyl Acetate)			
Solubility in	N.A.				N.A.	
Solubility III	N.A.					
Appearance a	and Odor		0.15.1.5.	-1 Cl 1 1		
Section 1	0 – Stability and	l Reac		al Shape, odorless		•
Stability	Unstable	11000	Conditions	to Avoid		
	Stable					
	Stable	X				
Incompatibili	ity (Materials to Avoid	d)				
Hazardous D	ecomposition or Bypro	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.

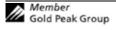
Alkaline batteries (sometimes referred to as "Dry cell" batteries) are not listed as dangerous goods under the ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road, the IMDG International Maritime Dangerous Goods Code, UN Dangerous Good Regulations, IATA Dangerous Goods Regulations 55th 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	Special Provisions
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.