Document Number: MAA100 Revision:15 Page 1 of 5

IDENTITY (As Used on Label and List) Note: Blank spaces are not permitted if any item is not applicable or no

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
8/F GP Building, 30 Kwai Wing Road,	
	Date of prepared and revision
Kwai Chung, N.T. H.K.	Jan 2, 2013
	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.

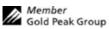
If electrolyte comes into contact with eyes, wash with copious amounts of water for fifteen (15) minutes, and contact a physician.

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

Document Number: MAA100 Revision:15 Page 2 of 5

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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	•			
Carbon Dioxide, Dry	Chemical or Foam extir	nguishers			
Special Fire Fighting Proced	ures				
N.A.					
Unusual Fire and Explosion	Hazards				
Do not dispose of bat	tery in fire - may explod	le.			
Do not short-circuit b	attery - may cause burns	S.			
Section 6 - Accident	al Release Measi	ures			
Steps to Be Taken in Case M	aterial is Released or Sp	oilled			
Batteries that are lea	kage should be handled	with rubber gloves.			
Avoid direct contact	with electrolyte.				
Wear protective clot	hing and a positive press	sure Self-Contained Bre	eathing Apparatus (SCB	A).	
Section 7 - Handling	and Storage				
Safe handling and storage ad	vice				
Batteries should be	handled and stored care	efully to avoid short circ	cuits		
	orderly fashion, or allow	•			
		metal objects to be min	xed with stored batteries	). 	
Never disassemble	a battery.				
Do not breathe cell	vapors or touch interna	l material with bare han	nds.		
The cells and batter	ries shall not be stored in	n high temperature, the	maximum temperature	allowed is 60°C for a	
short period during	short period during the shipment, Otherwise the cells maybe leakage and can result in shortened service life				

Document Number: MAA100			Revision:15		Page 3 of 5	
Section 8	– Exposure Co	ontrols /	Person P	rotection		
Occupational	Exposure Limits:	LTEP		STEP		
		N.A.			N.A.	
Respiratory I	Protection (Specify T	(ype)				
		N.A.				
Ventilation	Local Exhausts			Special		
		N.A.			N.A.	
	Mechanical (Gen	eral)		Other		
		N.A.			N.A.	
Protective G	loves			Eye Protection		
	N.A.				N.A.	
Other Protect	tive Clothing or Equ	ipment		- <b>L</b>		
	N.A.					
Work / Hygie	enic Practices					
	N.A.					
Section 9	- Physical / Ch	nemical	Properties			
Boiling Point			Specific Grav		27.4	
Vapor Pressu	N.A. re (mm Hg)		Melting Poin	t	N.A.	
	N.A.				N.A.	
Vapor Densit	y (AIR=1) N.A.		Evaporation 1	Rate (Butyl Aceta	te) N.A.	
Solubility in			l			
Appearance a			~			
Section 1	0 – Stability an	d React		l Shape, odorless		•
Stability	Unstable	ia react	Conditions	to Avoid		
	Stable					
	Stable	X				
Incompatibili	ty (Materials to Avo	id)				
Hazardous De	ecomposition or Byp	roducts				
Hazardous Polymerizati on	May Occur		Conditions	to Avoid		
	Will Not Occur	X				



Document Number: MAA100

Document Number: MAA100 Revision:15 Page 4 of 5

Se	ection 11 -	- Toxicol	ogi	ical	Inf	ormat	ion
ъ	, () C		T 1	1	0		

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.

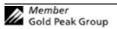
Alkaline batteries (sometimes referred to as "Dry cell" batteries) are not listed as dangerous goods under the ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road, the IMDG International Maritime Dangerous Goods Code, UN Dangerous Good Regulations, IATA Dangerous Goods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



Document Number: MAA100 Revision:15 Page 5 of 5

#### **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.