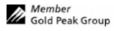
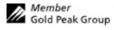


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IDENTITY (As Used on Labe and List) Alkaline battery	Note : Blank spaces a marked to indicate th		y item is not applicable or	no information is available, the space must be
Section I	I			
Manufacturer's Name	E	N		
GPI International Ltd.	Emergency Telephor	ne Number		
Address (Number, Street, City	y Telephone Number f	or information		
ate, and ZIP Code) 852-2484-3333				
8/F GP Building, 30 Kwai Wii		l revision		
Road, Kwai Chung, N.T. H.K.	April 1, 2010			
Kwai Chung, N. I. H.K.	Signature of Prepare	(ontional)		
	g	(°F)		
Section II - Hazard	lous Ingredients	/ Identity Info	rmation	
Hazardous Components:		•		
Description:	CAS#		EINECS No.	Approximate % of total weight
Lead	7439-92		231-106-7	<0.004Wt%
Mercury	7439-97		231-106-7	<0.0001Wt%
Cadmium	7440-43		231-152-8	<0.002Wt%
Manganese Dioxide	1313-13		215-202-6	~40Wt%
Zinc Metal	7440-66		231-175-3	~16Wt%
Potassium hydroxide	1310-58	-3	215-181-3	~18Wt%
Continu III Dhynina	I / Chaminal Cham			
Section III - Physica				
Boiling Point N.A.	Specific Gravity (H ₂ 0	O=1)	N.A.	
Vapor Pressure (mm Hg)	Melting Point		14.21.	
N.A.			N.A.	
Vapor Density (AIR=1) N.A.	Evaporation Rate (Bu	utyl Acetate)	N.A.	
Solubility in Water			N.A.	
N.A.				
Appearance and Odor		Cylindrical Ch	omo odouloso	
Section IV –Hazar	d Classification	Cylindrical Sha	ipe, odoriess	
Classification	u Classification			
N.A.				
Section V - Reacti	ivity Data			
Stability Unstable	Co	onditions to Avoid		
0.11				
Stable	X			
Incompatibility (Materials to A	Avoid)			
• • • • • • • • • • • • • • • • • • • •	,			
Hazardous Decomposition or I	Byproducts			
Hazardous May Occur	Co	onditions to Avoid		
Polymerization				
Will Not Oc				
	X			
· · · · · · · · · · · · · · · · · · ·				





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Section VI - Health I	Hazard Data				
Route(s) of	Inhalation?	Skin?	Ingestion?		
Entry		N.A.	N.A.	N.A.	
Health Hazard (Acute and	Chronic) / Toxiclogic	cal information			
·	-	en contaminated with electroly	te.		
In contact with electroly	te can cause severe irritation	on and chemical burns.			
Inhalation of electrolyte	vapors may cause irritation	of the upper respiratory tract a	and lungs.		
0 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
Section VII – First A	id Measures				
First Aid Procedures					
If electrolyte leakage occ	curs and makes contact wit	h skin, wash with plenty of wat	ter immediately.		
If electrolyte comes into	contact with eyes, wash w	ith copious amounts of water for	or fifteen (15) minutes, and con	tact a physician.	
If electrolyte vapors are	inhaled, provide fresh air a	nd seek medical attention if res	spiratory irritation develops. Ve	ntilate the contaminated area.	
Section VIII - Fire ar	nd Explosion Ha	zard Data			
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 Ch	nemical or Foam extinguish	ers			
Special Fire Fighting Procedures					
N.A.					
Unusual Fire and Explosion Haza					
Do not dispose of battery	·				
Do not short-circuit batte					
Section IX – Accider					
Steps to Be Taken in Case	Material is Released	or Spilled			
Batteries that are leaka	age should be handled with	rubber gloves.			
Avoid direct contact w	vith electrolyte.				
Wear protective clothic	ng and a positive pressure S	Self-Contained Breathing Appa	ratus (SCBA).		
Section X – Handlin	g and Storage				
Safe handling and storage					
Batteries should be h	nandled and stored carefully	y to avoid short circuits.			
Do not store in disor	derly fashion, or allow met	al objects to be mixed with stor	red batteries.		
Never disassemble a	battery.				
Do not breathe cell v	vapors or touch internal material	terial with bare hands.			
Keep batteries between	een -30°C and 35°C for pro	long storage.			





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Section 2	XI – Exposure Controls / Per	son Protection	
	Exposure Limits: LTEP	STEP	
	N.A.	N.A.	
Respiratory Pr	rotection (Specify Type)	L	
	N.A.		
Ventilation	Local Exhausts	Special	
	N.A.	N.A.	
	Mechanical (General)	Other	
	N.A.	N.A.	
Protective Gloves		Eye Protection	
N.A.		N.A.	
Other Protecti	ve Clothing or Equipment	<u>_</u>	
	N.A.		
Work / Hygier	nic Practices		
	N.A.		
Section 2	XII – Ecological Information		
	N.A.		
Section 2	XIII – Disposal Method		
	e of batteries according to government regulation	ons.	

Section XIV - Transportation Information

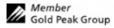
In general, all batteries in all forms of transportation (ground, air, or ocean) must be packaged in a safe and responsible manner. Regulatory concerns from all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in "strong outer packaging" 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 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	Special Provisions	
ADR	295 - 304, 598	
IMDG	UN 3028 Provisions 295 - 304	
UN	UN 3028 Provisions 295 - 304	
US DOT	49 CFR 172.102 Provision 130	
IATA	A123	
ICAO	UN 3028 Provisions 295 - 304	

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.

Non-dangerous goods.

Such battery have been packed in inner packaging in such a manner as to effectively prevent short circuit and movement that could lead to short circuit.





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Section XV - Regulatory Information

Special requirement be according to the local regulatories.

Section XVI – Other Information

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

Section XVII - 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.