GP Batteries

Material Safety Data Sheet for GP Cylindrical Alkaline Battery

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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		
8/F GP Building, 30 Kwai Wing Road,			
	Date of prepared and revision		
Kwai Chung, N.T. H.K.	Jan 1, 2015		
	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.

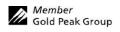
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Document Number: MAA100 Revision:17 Page 2 of 5 Section 5 – Fire-Fighting Measures UEL Flash Point (Method Used) Ignition Temp. Flammable Limits LEL N.A. N.A. N.A. N.A. N.A. Extinguishing Media Carbon Dioxide, Dry Chemical or Foam extinguishers Special Fire Fighting Procedures N.A. Unusual Fire and Explosion Hazards Do not dispose of battery in fire - may explode. Do not short-circuit battery - may cause burns. Section 6 – Accidental Release Measures Steps to Be Taken in Case Material is Released or Spilled Batteries that are leakage should be handled with rubber gloves. Avoid direct contact with electrolyte. Wear protective clothing and a positive pressure Self-Contained Breathing Apparatus (SCBA). Section 7 – Handling and Storage Safe handling and storage advice Batteries should be handled and stored carefully to avoid short circuits. Do not store in disorderly fashion, or allow metal objects to be mixed with stored batteries. Never disassemble a battery. Do not breathe cell vapors or touch internal material with bare hands. The cells and batteries shall not be stored in high temperature, the maximum temperature allowed is 60°C for a short period during the shipment, Otherwise the cells maybe leakage and can result in shortened service life...



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Section 8	– Exposure Cor	itrols /	Person Pi	rotection		
		TEP		STEP		
	N	.A.			N.A.	
Respiratory F	Protection (Specify Ty	oe)				
	N	I.A.				
Ventilation Local Exhausts N.A. Mechanical (General) N.A.				Special		
		N.A.			N.A.	
		Other				
				N.A.		
Protective Gl	oves			Eye Protection		
	N.A.				N.A.	
Other Protect	ive Clothing or Equip	ment				
	N.A.					
Work / Hygie	enic Practices					
	N.A.					
Section 9	- Physical / Che	mical	Properties			
Boiling Point			Specific Grav			
Vapor Pressur	N.A.		Melting Poin	+	N.A.	
vapor Pressur	N.A.		ivieting Poin	ι	N.A.	
Vapor Density (AIR=1) Evaporation		Evaporation I	Rate (Butyl Aceta			
Solubility in V	N.A. Vater				N.A.	
	N.A.					
Appearance a	nd Odor		Cylindrica	l Shape, odorless		
Section 10	0 – Stability and	React	•			
Stability	Unstable		Conditions	to Avoid		
	Stable					
1		X				
incompatibilit	y (Materials to Avoid)				
Hazardous De	ecomposition or Bypro	ducts				
Hazardous Polymerizati on	May Occur		Conditions	to Avoid		
	Will Not Occur	х				
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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.

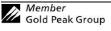
Alkaline batteries (sometimes referred to as "Dry cell" batteries) are not listed as dangerous goods under the ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road, the IMDG International Maritime Dangerous Goods Code, UN Dangerous Good Regulations, IATA Dangerous Goods Regulations 56th 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
USDOT	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.

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