GP Batteries

Material Safety Data Sheet for GP Cylindrical Alkaline Battery

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IDENTIFICAÇÃO II 1 I 1 I II I	N. D. 1	1' 11

IDENTITY (As Used on Label and List)
Alkaline batteries

13A(LR20)/14A(LR14)/15A(LR6)/ 24A(LR03)/25A(LR8D425)/910A(LR1) 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

Section 1- Identification	
Manufacturer's Name	Emergency Telephone Number
GPI International Ltd.	
Address (Number, Street, City State, and	Telephone Number for information
ZIP Code)	852-2484-3111
7/F, Building 16W, 16 Science Park West	
Avenue	
	Date of prepared and revision
Hong Kong Science Park, New Territories.	01 Jan, 2022
H.K.	
	Signature of Prepare (optional)

Section 2 - Hazards Identification

Classification

N.A.

Section 3 – Composition/Information on Ingredients

Ingredient	CAS# EINECS No.		Approximate Content (wt%)					
ingredient			15A (LR6)	24A (LR03)	14A (LR14)	13A (LR20)	910A (LR1)	25A (LR8D425)
Manganese Dioxide (MnO ₂)	1313-13-9	215-202-6	42.6	40.9	40.6	41.8	34.2	36.0
Zinc (Zn)	7440-66-6	231-175-3	16.1	14.8	16.0	17.4	13.5	17.0
Water (H ₂ O)	7732-18-5	231-791-2	12.2	11.7	11.0	11.1	9.5	6.5
Potassium Hydroxide (KOH)	1310-58-3	215-181-3	5.2	4.8	7.0	7.0	4.2	1.3
Graphite	7782-42-5	231-955-3	3.0	1.7	3.2	3.4	3.0	2.3
Brass	12597-71-6	603-111-8	2.4	3.0	1.2	0.8	2.3	3.5
Steel	7439-89-6	231-096-4	15.7	20.4	18.6	16.3	29.5	30.0
Ni-plating	7440-02-0	231-111-4	0.3	0.3	0.2	0.2	0.3	0.6
Nylon-66	32131-17-2	608-706-6	1.6	1.5	1.6	1.4	2.9	2.2
Fiber	None	None	0.9	0.9	0.6	0.6	0.6	0.6

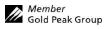
Section 4 - First Aid Measures

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	5		
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 e	extinguishers		
Special Fire Fighting Proced	ures			
N.A.				
Unusual Fire and Explosion	Hazards			
Do not dispose of batt	tery in fire - may exp	plode.		
Do not short-circuit be	attery - may cause b	urns.		
Section 6 – Accident	al Release Me	asures		
Steps to Be Taken in Case M	aterial is Released o	r Spilled		
Batteries that are leal	kage should be hand	led with rubber gloves.		
Avoid direct contact	with electrolyte.			
Wear protective cloth	hing and a positive p	oressure Self-Contained Br	reathing Apparatus (S	SCBA).
Section 7 – Handling	and Storage			
Safe handling and storage adv	vice			
		carefully to avoid short ci		
Do not store in disc	orderly fashion or all	ow metal objects to be mi	xed with stored batte	ries.
Never disassemble	a battery.			
Do not breathe cell	vapors or touch inte	ernal material with bare ha	nds.	
The cells and batter	ries shall not be store	ed in high temperature, the	e maximum temperat	ure allowed is 60°C for a
short period during	the shipment, Other	wise the cells maybe leak	age and can result in	shortened service life



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Section 8	- Exposure Co	ntrols /	Person P	Protection	
	•	LTEP		STEP	
N.A.		N.A.			
Respiratory I	Protection (Specify Ty	pe)			
		N.A.			
Ventilation	Local Exhausts			Special	
		N.A.		N.A.	
	Mechanical (Gene	ral)		Other	
		N.A.		N.A.	
Protective Gl	loves			Eye Protection	
1100000110	N.A.			N.A.	
Other Protect	tive Clothing or Equip	ment		11/11	
Other Froteen	N.A.	ment			
Warls / Harais					
Work / Hygie					
	N.A.				
	- Physical / Ch	emical			
Boiling Point	N.A.		Specific Gra	avity (H ₂ O=1) N.A.	
Vapor Pressu	Vapor Pressure (mm Hg) Melting Poin			nt	
Vanor Densit	N.A. v (AIR=1)		Evanoration	N.A. Rate (Butyl Acetate)	
	apor Density (AIR=1) Evaporation N.A.		N.A.		
Solubility in V	Water N.A.				
Appearance a					
				al Shape, odorless	
Section 1	0 – Stability and Unstable	React	Conditions	to Associa	
Stability	Ulistable		Conditions	a to Avoid	
	Stable	37			
Incompatibili	ty (Materials to Avoid	1) X			
Hazardous De	ecomposition or Bypr	oducts			
Hazardous	May Occur		Conditions to Avoid		
Polymerizati					
on	Will Not Occur				
		X			



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Section 11 – Toxicological Information					
Route(s) of	Inhalation?	Skin?	Ingesti	on?	
Entry		N.A.	N.A.	N.A.	
Health Hazard (Acute and Chronic) / Toxicological 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.

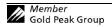
Alkaline batteries (sometimes referred to as "Dry cell" batteries) are not listed as dangerous goods under the ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road, the IMDG International Maritime Dangerous Goods Code, UN Dangerous Good Regulations, IATA Dangerous Goods Regulations 63rd 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 requirements according to local regulations.





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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.