Material Safety Data Sheet for GP Greencell (Carbon Zinc) Cylindrical Battery

Document Number: MGC100	Revision: 28	Page 1 of 5
IDENTITY (As Used on Label and List) Carbon Zinc Batteries	Note: Blank spaces are not permitted if any item is not information is available, the space must be marked to	
Section 1- Identification		
Manufacturer's Name GPI International Ltd.	Emergency Telephone Number	
Address (Number, Street, City State, and ZIP Code) 7/F Building 16W, Science Park	Telephone Number for information 852-2484-3333	
West Avenue Hong Kong Science Park , New Territories , Hong Kong	Date of prepared and revision Dec. 15, 2021	
	Signature of Prepare (optional)	

Section 2 – Hazards Identification

Classification:

N.A.

Se	Section 3 – Composition/Information On Ingredients						
	Ingredient	CAS №	EINECS	Content (w/w)			
	Ingredient CAS M	N⁰	R03	R6P	R14P	R20P	
	Manganese Dioxide	1313-13-9	215-202-6	23~28%	17~27%	17~29.5%	17.5~33%
	Zinc	7440-66-6	231-175-3	34~38%	20~23%	17~20%	17~22%
	Zinc Chloride	7646-85-7	231-592-0	4.0~6.0%	4.3~6.8%	6.0~8.0%	6.0~8.8%
	Ammoniu m Chloride	12125-02-9	235-186-4	0.2~0.4%	0.2~0.7%	0.6~0.8%	0.3~0.9%
	Acetylene Black	1333-86-4	215-609-9	3.7~4.7%	3.4~4.4%	4.0~5.0%	4.4~5.9%
	Lead	7439-92-1	231-100-4	< 1000ppm	< 1000 ppm	< 1000ppm	< 1000ppm
	Cadmium	7440-43-9	231-152-8	< 10 ppm	< 10 ppm	< 10 ppm	< 10 ppm
	Mercury	7439-97-6	231-106-7	< 1 ppm	< 1 ppm	< 1 ppm	< 1 ppm

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.



Manufacturer reserves the right to alter or amend the design, model and specification without prior notice.

Material Safety Data Sheet for GP Greencell (Carbon Zinc) Cylindrical Battery

Revision: 28 Document Number: MGC100 Page 2 of 5 Section 5 – Fire-Fighting Measures Flash Point (Method Used) UEL 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..

Material Safety Data Sheet for GP Greencell (Carbon Zinc) Cylindrical Battery

Document Number: MGC100				Revision: 28		Page 3 of 5
Section 8	– Exposure Co	ntrols /	Person Pi	rotection		
Occupational Exposure Limits: LTEP				STEP		
	Ν	I.A.		N./	\ .	
Respiratory F	Protection (Specify Ty	pe)				
]	N.A.				
Ventilation	Local Exhausts			Special		
		N.A.		N./	Α.	
	Mechanical (Gener	al)		Other		
N.A.				N./	Α.	
Protective Gl				Eye Protection		
	N.A.			N.4	Α.	
Other Protect	ive Clothing or Equip	ment				
	N.A.					
Work / Hygie						
work/ iiygk	N.A.					
Contine 0		miaal	Droportion			
Section 9 Boiling Point	- Physical / Che	emical	Specific Grav			
N.A.			Specific Olav	(ity (11 ₂ 0–1)	N.A.	
Vapor Pressure (mm Hg)			Melting Poin			
N.A. Vapor Density (AIR=1)			Evaporation	Rate (Butyl Acetate)	N.A.	
N.A.		Evaporation		N.A.		
Solubility in V						
Appearance a	N.A. nd Odor					
11			Cylindrica	l Shape, odorless		
Section 1	0 – Stability and	React	ivitv			
Stability	Unstable		Conditions t	to Avoid		
	Stable					
		X				
Incompatibili	ty (Materials to Avoid	.)				
Hazardous De	ecomposition or Bypro	oducts				
Hazardous Polymerizati on	May Occur		Conditions t	to Avoid		
	Will Not Occur					

Member Gold Peak Group

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Material Safety Data Sheet for GP Greencell (Carbon Zinc) Cylindrical Battery

Document Number: MGC100

Revision: 28

Page 4 of 5

N.A.

Ingestion?

Section 11 – Toxicological Information

 Route(s) of Entry
 Inhalation?
 N.A.
 Skin?
 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 Carbon Zinc Batteries has been designed to be compliant with these regulatory concerns.

Carbon Zinc 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 Carbon Zinc 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 regulations.

Section 16 – Other Information

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



GP Batteries Material Safety Data Sheet for GP Greencell (Carbon Zinc)

Material Safety Data Sheet for GP Greencell (Carbon Zinc) Cylindrical Battery

Document Number: MGC100

Revision: 28

Page 5 of 5

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.