

Material Safety Data Sheet for GP 9V Carbon Zinc & Zinc Chloride **Batteries**

Page 1 of 4 IDENTITY (As Used on Label and List) Note: Blank spaces are not permitted if any item is not applicable or no Carbon Zinc batteries information is available, the space must be marked to indicate that. **Section 1- Identification** Manufacturer's Name Emergency Telephone Number GPI International Ltd.

Revision:15

Address (Number, Street, City State, and Telephone Number for information 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:

Document Number: MWW 001

N.A.

Section 3 – Composition/Information On Ingredients					
Hazardous Components:					
Description:	Approximate % of total weight	CAS No.	Remark		
Zinc Chloride (ZnCl ₂)	2-10 Wt%	7646-85-7			
Ammonium Chloride (NH ₄ Cl)	0-10 Wt%	12125-02-9			
Manganese Dioxide (MnO ₂)	25-35 Wt%	1313-13-9			
Zinc (Zn)	10-20 Wt%	7440-66-6			
Acetylene Black	5-15 Wt%	1333-86-4			

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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short period during the shipment, Otherwise the cells maybe leakage and can result in shortened service life..

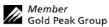


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			Person Protection
Occupationa	1	LTEP	STEP
	1	I.A.	N.A.
Respiratory l	Protection (Specify Ty	pe)	·
		N.A.	
Ventilation Local Exhausts N.A.			Special
		N.A.	N.A.
Mechanical (General)		ral)	Other
N.A.		N.A.	N.A.
Protective Gloves			Eye Protection
N.A.			N.A.
Other Protec	tive Clothing or Equip	ment	
2	N.A.		
Work / Hygi	enic Practices		
WOIK/ Hygh	N.A.		
0 1' 0			D
Boiling Point	- Physical / Cho	emicai	Specific Gravity (H ₂ O=1)
-	N.A.		N.A.
Vapor Pressure (mm Hg) Me			Melting Point
N.A. Vapor Density (AIR=1) Eval			N.A. Evaporation Rate (Butyl Acetate)
	N.A.		N.A.
Solubility in	Water N.A.		
Appearance a	and Odor		De tour la Characte la lace
			Rectangular Shape, odorless
Section 1	0 – Stability and	l React	
Stability	Unstable		Conditions to Avoid
	Stable	X	
Incompatibili	ty (Materials to Avoice		
Hazardous D	ecomposition or Bypro	aduete	
Hazardous D	ecomposition of Bypi	Juicis	
Hazardous Polymerizati on	May Occur		Conditions to Avoid
	Will Not Occur	X	



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Section 11 - Toxicological Information

Route(s) of Entry Inhalation? N.A. Skin? N.A. Ingestion? 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 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
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 regulatories.

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.

