

Material Safety Data Sheet for GP Photo Lithium battery (Lithium Metal Battery)

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IDENTITY (As Used on Label and List) NiCd 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) 8/F GP Building, 30 Kwai Wing Road,	Telephone Number for information 852-2484-3333	
Kwai Chung, N.T. H.K.	Date of prepared and revision Jan 6, 2012 Signature of Prepare (optional)	

Section 2 – Hazards Identification

Classification:

N.A.

Section 3 – Composition/Information On Ingredients					
Hazardous Components:					
Description:	CAS Number	Approximate % of total weight			
Lead	7439-92-1	<0004 Wt%			
Mercury	7439-97-6	<0.0001 Wt%			
Cadmium	7440-43-9	<0.001 Wt%			
Lithium	7439-93-2	2.7-3.3 Wt%			

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.

Section 5 – Fire-Fighting Measures						
Flash Point (Method Used)	Ignition Temp.	Flammable Limits	LEL	UEL		
N.A.	N.A.	N.A.	N.A.	N.A.		

Extinguishing Media

Carbon Dioxide, Dry Chemical or Foam extinguishers

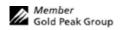
Special Fire Fighting Procedures

N.A.

Unusual Fire and Explosion Hazards

Do not dispose of battery in fire - may explode.

Do not short-circuit battery - may cause burns.





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

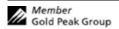
Section 8– Exposure Controls / Person Protection					
Occupational	Exposure Limits: LTEP		STEP		
	N.A.			N.A.	
Respiratory P	Protection (Specify Type)	N.A.			
Ventilation	Local Exhausts	N.A.	Special	N.A.	
	Mechanical (General)	N.A.	Other	N.A.	
Protective Gl	oves	N.A.	Eye Protection	N.A.	
Other Protect	ive Clothing or Equipment	N.A.			

Work / Hygienic Practices N.A.

Boiling Point	Specific Gravity (H ₂ O=1)
N.A.	N.A.
Vapor Pressure (mm Hg)	Melting Point
N.A.	N.A.
Vapor Density (AIR=1)	Evaporation Rate (Butyl Acetate)
N.A.	N.A.
Solubility in Water	
N.A.	

Appearance and Odor

Cylindrical Shape, odorless



GP Batteries

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Section 1	0 – Stability a	nd Reacti	vity				
Stability	Unstable			ons to Avoid			
	Stable	X					
Incompatibili	ty (Materials to Av	roid)					
Hazardous De	ecomposition or By	products					
Hazardous Polymerizati on	May Occur		Co	onditions to Avoi	d		
	Will Not Occur	X					
Section 1	1 – Toxicolog	ical Inforn	nation		·		
Route(s) of E	ntry Inh	alation?	N.A.	Skin?	N.A.	Ingestion?	N.A.
Health	n Hazard (Acute an	d Chronic) / T	oxiclogic	cal information			
In case	of electrolyte leak	age, skin will	be itchy	when contaminat	ed with elect	rolyte.	
In con	tact with electrolyte	e can cause se	vere irrita	ation and chemica	al burns.		
Inhala	tion of electrolyte v	apors may car	ıse irritat	tion of the upper	respiratory tr	act and lungs.	
Section 1	2 – Ecologica	I Informat	ion				
	N.A.						
Section 1	3 – Disposal (Considera	tions				
Dispose	of batteries accord	ling to govern	nent regi	ulations.			



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Section 14 – Transportation Information

All GP lithium Photo batteries (Lithium Metal Battery) comply to the necessary requirements under the UN Manual of Tests and Criteria as referenced in the following transportation regulations:

- 1. UN Recommendations on the Transport of Dangerous Goods Model Regulations
- 2. U.S. Department of Transportation hazardous materials regulations (HMR),
- 3. International Civil Aviation Organization (ICAO) Technical Instructions,
- 4. International Air Transport Association (IATA) Dangerous Goods Regulations, Partially Regulated DG section II of PI 968 and
- 5. International Maritime Dangerous Goods (IMDG) Code. Special Provision 188, Special Provision 230 & Special Provision 903

GP lithium Photo Batteries are exempted from these regulations since they meet all UN Testing requirements and not exceed 1g lithium equivalent for single cell and 2g lithium equivalent for battery. (UN3090.) Non-dangerous Goods.

All GP lithium Photo battery (Lithium Metal Battery) packaging comply with Partially regulated DG. section II of PI 968.

Cells & batteries should be packaged in accordance with these transportation regulations. It is especially important to ensure that cells & batteries are packed in such a way to prevent short circuits.

** The commodity is met the UN manual of Tests and Criteria, Part III, Sub-section 38.3 **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.

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.

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WEIGHT OF LITHIUM FOR LITHIUM BATTERY

Battery type	Model	Weight of cell (g)	Aggregated lithium equivalent
			content (g)
	GPCR123A	17	0.6
	GPCR2	12	0.33
Cell	GPCR1/3N	2.3	0.06
	GPCR14250	9	0.3
	GPCR14500	17	0.66
	GPCR-P2	37	1.14
Battery	GPCR-V3	38	1.32
	GP2CR5	40	1.08
	GPCR-V9	34	0.9