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

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IDENTITY (As Used on Label and List)	Note : Blank spaces are not permitted if any item is	s not applicable or no				
Lithium metal 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 11, 2013					
	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	<0.004 Wt%	
Mercury	7439-97-6	<0.0001 Wt%	
Cadmium	7440-43-9	<0.001 Wt%	
Lithium	7439-93-2	2-3 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 MeasuresFlash Point (Method Used)Ignition Temp.Flammable LimitsLELUELN.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°C 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 Pr	rotection (Specify Type)	N.A.	·	
Ventilation	Local Exhausts	N.A.	Special	N.A.
	Mechanical (General) N	.A.	Other	N.A.
Protective Glo	oves N.A.		Eye Protection	N.A.
Other Protecti	ve Clothing or Equipment	N.A.		
Work / Hygier	nic Practices N.A.			
Section 9	- Physical / Chemica	I Properties	5	
Boiling Point		Specific Grav	vity ($H_2O=1$)	
•	N.A.	-	•	N.A.
Vapor Pressure	e (mm Hg)	Melting Poin	t	
-	N.A.	-		N.A.
Vapor Density	(AIR=1)	Evaporation	Rate (Butyl Acetat	e)
	N.A.	-	•	N.A.
Solubility in W	Vater			
•	N.A.			



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Appearance and Odor

Coin (button) Shape, odorless

Section 1	0 – Stability and F	Reactiv	/ity					
Stability	Unstable		Cond	itions to Avoid	1			
	Stable							
	Stable	Х						
Incompatibili	ty (Materials to Avoid)							
Hazardous De	ecomposition or Byprodu	icts						
Hazardous Polymerizati on	May Occur			Conditions to	Avoid			
	Will Not Occur	X						
Section 1	1 – Toxicological	Inforn	natio	n			·	
Route(s) of E	ntry Inhalatio	n?	N.A	Skin?		N.A.	Ingestion?	N.A.
Health	Hazard (Acute and Chr	onic) / T	oxiclo	gical informati	ion			
In case	of electrolyte leakage, s	kin will	be itcl	y when contai	ninated v	vith elect	rolyte.	
In cont	tact with electrolyte can	cause sev	vere ir	ritation and che	emical bu	rns.		
Inhalat	ion of electrolyte vapors	may cau	ise irr	tation of the up	pper respi	iratory tra	act and lungs.	
Section 12	2 – Ecological Inf	ormati	on					
	N.A.							
Section 1	3 – Disposal Cons	sidera	tions					

Dispose of batteries according to government regulations.

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Section 14 – Transportation Information

All GP lithium batteries (Lithium Metal Battery) shown in this MSDS comply to the necessary requirements under the UN Recommendations on the Transport of Dangerous Goods Model Regulations and UN Manual of Tests and Criteria as referenced in the following transportation regulations:

UN No.	Shipping modes	Regulations	Packing instructions	Limit of Aggregated lithium content	Classification	Lithium handling label	Class 9 DG label
UN3090	USA	US Department of Tran Hazardous Substances (§ 173.185	-	1 g (cell)/2 g (battery)	Non-dangerous goods	Needed	Not necessary
	Air	ICAO/IATA DGR 54 th edition	PI968 Section II	< 0.3 g (cell/battery)	Partially regulated dangerous goods	Needed	Not necessary
	Sea	IMO/IMDG Code 35-10	P903 SP188	1 g (cell)/2 g (battery)	Non-dangerous goods	Needed	Not necessary
	Road/Rail	ADR / RID	P903 P903a P903b	1 g (cell)/2 g (battery)	Non-dangerous goods	Needed	Not necessary

WEIGHT OF LITHIUM FOR LITHIUM BATTERY

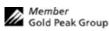
Battery type	Model	Weight of cell (g)	Aggregated lithium equivalent content (g)
	GPCR1025	0.6	0.01
	GPCR1216	0.7	0.01
	GPCR1220	0.8	0.01
	GPCR1616	1.1	0.08
	GPCR1620	1.2	0.02
Coin cell	GPCR2016	1.7	0.03
	GPCR2025	2.4	0.06
	GPCR2032	3.2	0.07
	GPCR2430	4.3	0.09
	GPCR2450	6.6	0.17
	NTCR2032E	2.8	0.056

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.



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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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Battery type	Model	Weight of cell (g)	Aggregated lithium equivalent content (g)
	GPCR1025	0.6	0.01
	GPCR1216	0.7	0.01
	GPCR1220	0.8	0.01
	GPCR1616	1.1	0.08
	GPCR1620	1.2	0.02
Coin-type	GPCR2016	1.7	0.03
	GPCR2025	2.4	0.06
	GPCR2032	3.2	0.07
	GPCR2430	4.3	0.09
	GPCR2450	6.6	0.17
	NTCR2032E	2.8	0.056

WEIGHT OF LITHIUM FOR LITHIUM BATTERY