GP Batteries

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

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IDENTITY (As Used on Label and List) Lithium Metal batteries	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			
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 Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887		
Kwai Chung, N.T. H.K.	Date of prepared and revision Jan 1, 2016 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	<0.0005 Wt%	
Cadmium	7440-43-9	<0.002 Wt%	
Lithium	7439-93-2	1.2-6.7 Wt%	

SVHC Substances according to REACH (Article 33)1,2-dimethoxyethane; ethylene glycol110-71-4> 0.1 Wt%dimethyl ether (EGDME)

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.

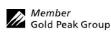
If electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops. Ventilate the contaminated area.

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Work / Hygienic Practices N.A.



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

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Section 9 - Physical / Chemic	al Properties	
Boiling Point	Specific Gravity ($H_2O=1$)	
N.A.	N.	А.
Vapor Pressure (mm Hg)	Melting Point	
N.A.	N	А.
Vapor Density (AIR=1)	Evaporation Rate (Butyl Acetate)	
N.A.	N.	А.
Solubility in Water		
N.A.		
Appearance and Odor		

Cylindrical Shape, odorless

Section 10 – Stability and Reactivity							
Stability	Unstable		Cond	itions to Avoid			
	Stable	Х					
Incompatibili	ty (Materials to Avoid)						
Hazardous De	ecomposition or Byprodu	icts					
Hazardous Polymerizati on	May Occur			Conditions to Avo	id		
	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	oxicol	logical information			
In case	of electrolyte leakage, s	kin will	be itcl	hy when contamina	ted with elect	rolyte.	
In cont	act with electrolyte can	cause sev	vere ir	ritation and chemic	al burns.		
Inhalat	ion of electrolyte vapors	may cau	ise irri	itation of the upper	respiratory tr	act and lungs.	
Section 12	2 – Ecological Inf	ormati	on				
	N.A.						
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Section 13 – Disposal Considerations

Dispose of batteries according to government regulations.

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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 lithium batteries are compliant with these regulatory concerns.

GP lithium manganese dioxide batteries are exempt from the classification as dangerous goods as they meet the requirements of the special provisions listed below. (Essentially, they are properly packaged and labeled, contain less than 1 gram of lithium and pass the tests defined in UN model regulation section 38.3).

Regulatory Body	Special Provisions
ADR	188, 230, 310, 636, 656
IMDG Code 37-14	188, 230, 310, 957
UN	UN 3090, UN 3091
US DOT	29, A54, A100, A101
ICAO, IATA 57 th edition	Packaging Instructions 968 - 970
Transport Canada TDG	34

Model Weight of cell (g) Aggregated lithium equivalent Battery type content (g) GPCR2 10 0.27 GPCR1/3N 0.06 2.3 GPCR14250 10 0.27 Cell GPCR123A 16 0.56 0.96 GP15LF 14.5 GPCR-P2 37 1.12 GP2CR5 37 1.12 Battery GPCR-V9 34 0.81

WEIGHT OF LITHIUM FOR LITHIUM BATTERY

** The battery models meet the UN manual of Tests and Criteria, Part III, Sub-section 38.3 **

Section 15 – Regulatory Information

Special requirement be according to the local regulatory.

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.

