GP Batteries

Material Safety Data Sheet

Model No.: GP Lithium coin cells

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IDENTITY (As Used on Label and List)	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 I							
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 11, 06						
Kwai Cituig, IV.1.11.K.	Signature of Preparer (optional)						
	s Ingredients / Identity	y Information					
Hazardous Components: Description:	Approximate % of total weight						
Description.	Approximate % of total weight		_				
-							
Mercury	: 0	Wt%					
Cadmium	: 0	Wt%					
Metallic Lithium	: 2-3	Wt%					
-							
	Chemical Characteristics	S					
Boiling Point N.A.	Specific Gravity (H ₂ O=1)	N.A.					
Vapor Pressure (mm Hg) N.A.	Melting Point	N.A.	_				
Vapor Density (AIR=1) N.A.	Evaporation Rate (Butyl Acetate)	N.A.					
Solubility in Water N.A.							
Appearance and Odor	Cylind	lrical Shape, odorless					
Section IV - Fire and	Explosion Hazard Da	ta					
Flash Point (Method Used) N.A.	Flammable Limits N.A.	LEL UEL N.A.	N.A.				
Extinguishing Media							
N.A. 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 V	– Reactivit	y Data				
Stability	Unstable		Conditions to Avoid			
	Stable	X				
Incompatibility ((Materials to Avoi	d)	•			
Hazardous Deco	emposition or Bypa	roducts				
Hazardous Polymerization	May Occur		Conditions to Avoid			
	Will Not Occur	X				
	l - Health F	lazard Data				
Route(s) of		Inhalation?	Skin?		Ingestion?	
Entry			N.A.		N.A.	N.A.
Health Hazar	d (Acute and C	Chronic) / Toxi	clogical information			
			chy when contaminated with			
			rritation and chemical burns			
Inhalati	on of electrolyte v	apors may cause ir	ritation of the upper respirat	tory tract an	d lungs.	
Section V	II – First Ai	d Measures	<u> </u>			
First Aid Pro	cedures					
If electr	olyte leakage occi	urs and makes cont	act with skin, wash with ple	nty of water	immediately.	
If electr	olyte comes into o	contact with eyes, v	wash with copious amounts	of water for	fifteen (15) minutes, and cor	ntact a physician.
If electr	olyte vapors are in	nhaled, provide free	sh air and seek medical atter	ntion if respi	ratory irritation develops. Vo	entilate the contaminated area.
Section V	III - Fire an	d Explosion	Hazard Data			
Flash Point (Met		Ignition Temp.	Flammable Lim	its	LEL	UEL
N	.A.	N.A.	N.A.		N.A.	N.A.
Extinguishing M	Iedia		•			
Carbon	Dioxide, Dry Che	mical or Foam exti	inguishers			
Special Fire Figh	nting Procedures					
N.A.						
	d Explosion Hazar					
	• •	in fire - may explo				
Do not :	short-circuit batter	ry - may cause burn	ns.			



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Section IX	C – Accidental Release or S	 oillage			
Steps to Be 7	Taken in Case Material is Released o	Spilled			
Batte	ries that are leakage should be handled with r	ibber gloves.			
Avoid	d direct contact with electrolyte.				
Wear	protective clothing and a positive pressure Se	lf-Contained Breathing Apparatus (SC	CBA).		
Section X	 Handling and Storage 				
Safe handling	g and storage advice				
Bat	teries should be handled and stored carefully	o avoid short circuits.			
Do	not store in disorderly fashion, or allow metal	objects to be mixed with stored batter	ies.		
Nev	ver disassemble a battery.				
Do	not breathe cell vapors or touch internal mate	rial with bare hands.			
Kee	ep batteries between -30°C and 35°C for prolo	ng storage.			
Section X	I – Exposure Controls / Pers	son Protection			
Occupational Ex	xposure Limits: LTEP	STEP			
	N.A.	N.A	1 .		
Respiratory Pro	tection (Specify Type)				
	N.A.				
Ventilation	Local Exhausts	Special			
	N.A.	N.	A.		
	Mechanical (General)	Other			
D : : : CI	N.A.	N.	A.		
Protective Gloves N.A.		Eye Protection N	Δ		
Other Protective	e Clothing or Equipment	11	л.		
Other Frotective	N.A.				
Work / Hygienie					
N.A.					
Section X	II – Ecological Information				
N.A.					
Section X	III – Disposal Method				
Dispose of	of batteries according to government regulation	ns.			
	-				



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Section XIV – Transportation Information

In general, the transportation of primary lithium cells and batteries is regulated by the International Civil Aviation Organization, International Air Transport Association, International Maritime Dangerous Goods Code and the US Department of Transportation. The batteries must meet the following criteria for shipment:

- For air shipments, meet the requirements listed in Special Provision A45 of the International Air Transport Association Dangerous Goods Regulations.
- Meet the requirements for the US Department of Transportation listed in 49 CFR 17.185.
- With limited exceptions, the transport of primary lithium batteries is prohibited aboard passenger aircraft. Refer to December 15, 2004 Federal Register (Hazardous Materials; Prohibition on the Transportation of Primary Lithium Batteries and cells Aboard Passenger Aircraft; Final Rule) for additional rules that became effective on December 29, 2004.

By complying with the requirements specified above, Lithium Batteries are not otherwise regulated as Dangerous Goods.

Lithium Batteries manufactured, packed and shipped by GP meet the requirements specified above. Any Lithium Batteries subsequently repackaged or reshipped are required to meet all of the requirements specified above.

Section XV – Regulatory Information

Special requirement be according to the local regulatories.

Section XVI – Other Information

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

Section XVII – 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.