

Material Safety Data Sheet

Model No.:GP1604G

Document Number: MW002

Revision:2

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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			
GP1604G	must be marked to indicate that.			
Section I – Information of Manufacturer				
Manufacturer's Name	Emergency Telephone Number			
GPI International Ltd.				
Address (Number, Street, City State, and ZIP	Telephone Number for information			
Code)	852-2484-3333			
8/F GP Building, 30 Kwai Wing Road,				
Kwai Chung, N.T. H.K.	Date of prepared and revision Jul 29, 03			
¥	Signature of Preparer (optional)			

Section II - Hazardous Ingredients / Identity Information

Hazardous Components:

Description:	Approximate % of total weight		
Mercury	less then 0.00005	Wt%	
Lead	less then 0.04	Wt%	
Cadmium	less then 0.003	Wt%	
Zinc Chloride	2-10	Wt%	
Ammonium Chloride	0-10	Wt%	
Manganese Dioxide	25-35	Wt%	
Zinc	10-20	Wt%	
Acetylene Black	5-15	Wt%	

Section III - Physical / Chemical Characteristics				
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				
	Prismatic Shape odorless			

Section IV – Hazard Classification

Classification

N.A.



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Section V	 Reactivit 	y Data							
Stability	Unstable		Conditio	ns to Avoid					
	Stable								
		Х							
Incompatibility (I	Materials to Avoid	d)							
Hazardous Decor	nnosition or Bunr	oducts							
Hazaidous Decoi	iipositioli oi Bypi	oducts							
Hazardous	May Occur		Conditio	ns to Avoid					
Polymerization	Will Not Occur								
	will Not Occui	Х							
	I	1							
Section VI	- Health H	azard Data							
Route(s) of		Inhalation?		Skin?			Ingestion?		
Entry			N.,	A.		N.A.	e		N.A.
- Health Hazaro	1 (Acute and C	Thronic) / Toxid	rlogical	information					
Tieattii Tiazare			logical	mormation					
In case o	f electrolyte leaks	oge skin will be ita	hy when a	contaminated with elec	etrolyte				
	at with algotrolyte		rritation or	nd chamical burns	uoryte.				
						1			
Innalatio	on of electrolyte v	apors may cause in	ritation of	the upper respiratory t	ract and	lungs.			
Section VI	I – First Aid	d Measures							
First Aid Proc	cedures								
If algorithm		us and maleas agent	a at with al	in work with planty o	fructor	mmadiately			
If electro	late contraction	it's and makes cond	act with sk		of water	the second secon			
If electro	blyte comes into c	ontact with eyes, w	vasn with o	copious amounts of wa	tter for f	ifteen (15) m	inutes, and con	itact a physician.	• . •
If electro	olyte vapors are in	haled, provide fres	sh air and s	seek medical attention	if respir	atory irritatio	n develops. Ve	entilate the contam	inated area.
Section VI	II - Fire and	d Explosion	Haza	rd Data					
Flash Point (Meth	hod Used)	Ignition Temp.		Flammable Limits		LEL		UEL	
N	А.	N.A.		N.A.		Ν	.A.	1	N.A.
Extinguishing Me	edia								
Carbon I	Dioxide, Dry Cher	mical or Foam exti	nguishers						
Special Fire Figh	ting Procedures								
N.A.									
Unusual Fire and	Explosion Hazar	ds							
Do not dispose of battery in fire - may explode.									
Do not si	hort-circuit batter	y - may cause burn	IS.						

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Section IX – Accidental Release or Spillage 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 X – 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.
Keep batteries between -30°C and 35°C for prolong storage.

Section XI – Exposure Controls / Person Protection			
Occupational Exp	osure Limits: LTEP	STEP	
N.A.		N.A.	
Respiratory Protect	ction (Specify Type)	•	
	N.A.		
Ventilation	Local Exhausts	Special	
	N.A.	N.A.	
	Mechanical (General)	Other	
	N.A.	N.A.	
Protective Gloves		Eye Protection	
N.A.		N.A.	
Other Protective Clothing or Equipment			
N.A.			
Work / Hygienic I	Practices		
	N.A.		

Section XII - Ecological Information

N.A.

Section XIII – Disposal Method

Dispose of batteries according to government regulations.



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Section XIV – Transportation Information

GP batteries are considered to be "Dry cell" batteries and are unregulated for purposes of transportation by the U.S. Department of Transportation (DOT), International Civil Aviation Administration (ICAO), International Air Transport Association (IATA) and International Maritime Dangerous Goods Regulations (IMDG). The only DOT requirement for shipping these batteries is special provision 130 which states: "Batteries, dry are not subject to the requirements of this subchapter only when they are offered for transportation in a manner that prevents the dangerous evolution of heat (For example, by the effective insulation of exposed terminals). As of 1/1/97 IATA requires that batteries being transported by air must be protected from short-circuiting and protected from movement that could lead to short-circuiting.

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.