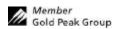


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IDENTITY (As Used on Label and List) GP380AFH	Note: Blank spaces are not permitted if any item is not applicable or no information is available, the space must be marked to indicate that.					
Section I - Information of Mai	nufacturer					
Manufacturer's Name GPI International Ltd.	Emergency Telephone Number					
Address (Number, Street, City State, and Z						
Code) 8/F GP Building, 30 Kwai Wing Road,	852-2484-3333					
Kwai Chung, N.T. H.K.	Date of prepared and revision Aug., 28, 2003 Signature of Preparer (optional)					
	Signature of Preparer (optional)					
Section II - Hazardous Ingred	ients / Identity Information					
Hazardous Components:						
Description:	Approximate % of total weight					
Mercury	<5ppm					
Lead	Nil					
Cadmium	Nil					
Ni(OH)2 (Nickel Hydroxide)	26.0 Wt%					
30% KOH Solution (Potassium Hydroxide)	9.5 Wt%					
Section III - Physical / Chemica						
	Specific Gravity (H ₂ O=1)					
N.A. Vapor Pressure (mm Hg) Me	N.A. elting Point					
N.A.	N.A.					
N.A.	aporation Rate (Butyl Acetate) N.A.					
Solubility in Water N.A.						
Appearance and Odor						
	Cylindrical Shape, odorless					
Section IV – Hazard Classific						
Classification	201011					
N. A						
N.A.						





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	 Reactivity 	[,] Data						
Stability	Unstable		Condition	s to Avoid				
	Stable							
		X						
Incompatibility	y (Materials to Av	roid)						
Hazardous Dec	composition or By	products						
Hazardous	May Occur		Condition	s to Avoid				
Polymerization								
	Will Not Occur	X						
	I - Health Ha	azard Data						
Route(s) of		Inhalation?		Skin?		Ingestion?		
Entry			N.A	•	N.A.			N.A.
In cont	act with electroly	te can cause sev	vere irritation	and chemical burn	s.			
Inhalat Section VI First Aid Pro	II — First Aid	vapors may ca	use irritation	of the upper respir	atory tract and			
Inhalat Section VI First Aid Pro	II — First Aid cedures	Measures	use irritation	of the upper respir	atory tract and	mmediately.	es and contact a	nhysician
Section VI First Aid Pro If electro	II — First Aid cedures Olyte leakage occurrolyte comes into	Measures urs and makes of contact with e	contact with	of the upper respir	enty of water is	mmediately. fteen (15) minut		
Section VI First Aid Pro If electro	II — First Aid cedures Olyte leakage occurrolyte comes into	Measures urs and makes of contact with e	contact with	of the upper respir	enty of water is	mmediately. fteen (15) minut		
Inhalat Section VI First Aid Pro If electro If electro	II — First Aid cedures Olyte leakage occurrolyte comes into olyte vapors are i	Measures urs and makes of contact with einhaled, provide	contact with yes, wash with the fresh air and	skin, wash with ple th copious amounts d seek medical atte	enty of water is	mmediately. fteen (15) minut		
Section VI First Aid Pro If electro If electro Section VI	II – First Aid cedures Olyte leakage occurrolyte comes into olyte vapors are i	Measures urs and makes of contact with enhaled, provide	contact with yes, wash with the fresh air an	skin, wash with ple th copious amounts d seek medical atte	enty of water is	mmediately. fteen (15) minut		
Section VI First Aid Pro If electro If electro Section VI Flash Point (M	II – First Aid cedures Olyte leakage occurrolyte comes into olyte vapors are i	Measures urs and makes of contact with enhaled, provide	contact with yes, wash with fresh air an	skin, wash with pleth copious amounts d seek medical atte	enty of water is	mmediately. fteen (15) minut	uEL	
Inhalat Section VI First Aid Pro If electro If electro If electro Section VI Flash Point (M	II – Fire and ethod Used) II. A.	Measures urs and makes of contact with enhaled, provide Explosion Ignition Temp	contact with yes, wash with fresh air an	skin, wash with plotth copious amounts d seek medical atte	enty of water is	mmediately. fteen (15) minut ttory irritation de	uEL	the contaminated a
Section VI First Aid Pro If electro If electro If electro Section VI Flash Point (M N Extinguishing N	II – Fire and ethod Used) II. A.	Measures urs and makes of contact with enhaled, provide Explosion Ignition Temp	contact with yes, wash with the fresh air and Hazard	skin, wash with ple th copious amounts d seek medical atte	enty of water is	mmediately. fteen (15) minut ttory irritation de	uEL	the contaminated a
Section VI First Aid Pro If electro If electro If electro Section VI Flash Point (M N Extinguishing M Carbon	II – First Aid cedures Olyte leakage occurrolyte comes into olyte vapors are into olyte	Measures urs and makes of contact with enhaled, provide Explosion Ignition Temp	contact with yes, wash with the fresh air and Hazard	skin, wash with ple th copious amounts d seek medical atte	enty of water is	mmediately. fteen (15) minut ttory irritation de	uEL	the contaminated a
Section VI First Aid Pro If electro If electro Section VI Flash Point (M N Extinguishing M Carbon	II – First Aid cedures Olyte leakage occurrolyte comes into olyte vapors are into olyte	Measures urs and makes of contact with enhaled, provide Explosion Ignition Temp	contact with yes, wash with the fresh air and Hazard	skin, wash with ple th copious amounts d seek medical atte	enty of water is	mmediately. fteen (15) minut ttory irritation de	uEL	the contaminated a
Section VI First Aid Pro If electro If electro If electro Section VI Flash Point (M N Extinguishing N Carbon Special Fire Fig N.A.	II – First Aid cedures Olyte leakage occurrolyte comes into olyte vapors are into olyte	Measures urs and makes of contact with enhaled, provide Explosion Ignition Temp N.A. emical or Foam	contact with yes, wash with the fresh air and Hazard	skin, wash with ple th copious amounts d seek medical atte	enty of water is	mmediately. fteen (15) minut ttory irritation de	uEL	the contaminated a
Section VI First Aid Pro If electro If electro If electro Section VI Flash Point (M N Extinguishing N Carbon Special Fire Fig N.A. Unusual Fire ar	II – First Aid cedures Olyte leakage occurrolyte comes into olyte vapors are into olyte	Measures urs and makes of contact with enhaled, provide Explosion Ignition Temp N.A. emical or Foam	contact with yes, wash with fresh air an Hazard .	skin, wash with ple th copious amounts d seek medical atte	enty of water is	mmediately. fteen (15) minut ttory irritation de	uEL	the contaminated a

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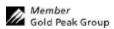
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Section IX	- Accidental Release or Sp	oillage						
	aken in Case Material is Released o							
Batter	Batteries that are leakage should be handled with rubber gloves.							
Avoid direct contact with electrolyte.								
Wear	protective clothing and a positive pressu	re Self-Contained Breathing Appa	ratus (SCBA).					
Section X	- Handling and Storage							
	g and storage advice							
Rati	teries should be handled and stored carefu	Ily to avoid short circuits						
	not store in disorderly fashion, or allow r		red batteries					
	ver disassemble a battery.							
	not breathe cell vapors or touch internal	material with bare hands.	_					
	p batteries between -30°C and 35°C for p							
Section VI	Evpocuro Controle / Pore	eon Protoction						
Occupational E	— Exposure Controls / Persexposure Limits: LTEP	STEP						
•	N.A.		N.A.					
Respiratory Pro	otection (Specify Type)							
	N.A.							
Ventilation	Local Exhausts	Special						
	N.A.		N.A.					
	Mechanical (General)	Other						
	N.A.		N.A.					
Protective Gloves		Eye Protection						
01 8	N.A.		N.A.					
Other Protectiv	ve Clothing or Equipment N.A.							
Work / Hygien								
Work / Hygienic Practices N.A.								
0 ()//								
Section XI	I – Ecological Information							
	N.A.							
Section XI	II – Disposal Method							
	of batteries according to government regu	ulations.						

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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.