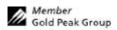
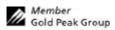


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IDENTITY (As Used on Label and List)	Note: Blank spaces are not permitted if any item is not apmust be marked to indicate that.	oplicable or no information is available, the space
Section I - Information of M	anufacturer	
Manufacturer's Name GPI International 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 Dec, 23 2003	
	Signature of Preparer (optional)	
Section II - Hazardous Infor	mation	
Hazardous Components:		
Description:		
Ni(OH)2 (Nickel Hydroxide)		
KOH Solution (Potassium Hydroxide)		
Section III - Physical / Chemica	al Characteristics	
Boiling Point Spo	ecific Gravity (H <sub>2</sub> 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 Classif	ination	
Classification	ication	
Classification		
N.A.		



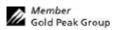


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Section V	- Reactivit	y Data					
Stability	Unstable	<b>,</b>	Conditions to Avoid				
	Stable	X					
Incompatibility (	Materials to Avoi	d)					
Hazardous Deco	mposition or Bypr	oducts					
Hazardous	May Occur	[	Conditions to Avoid				
Polymerization	Will Not Occur	X					
		Λ					
	l - Health H	azard Data					
Route(s) of		Inhalation?	Sk	in?	Inge	estion?	
Entry			N.A.		N.A.		N.A.
Health Hazar	d (Acute and C	Chronic) / Toxicl	ogical informati	on			
			y when contaminated		<b>2.</b>		
In conta	ct with electrolyte	can cause severe irr	itation and chemical	burns.			
Inhalati	on of electrolyte v	apors may cause irri	tation of the upper re	spiratory tract a	nd lungs.		
		d Measures					
First Aid Pro	cedures						
If electroly	te leakage occurs	and makes contact	with skin, wash with	n plenty of wate	r immediately.		
If electroly	te comes into con	tact with eyes, wash	with copious amou	nts of water for	fifteen (15) minutes,	and contact a phys	ician.
If electroly	te vapors are inha	led, provide fresh ai	r and seek medical	attention if respi	ratory irritation devel	ops. Ventilate the	contaminated area.
Section V	III - Fire and	d Explosion	Hazard Data				
Flash Point (Met		Ignition Temp.	Flammable		LEL	UEL	
	.A.	N.A.		N.A.	N.A.		N.A.
Extinguishing M	edia						
	•	mical or Foam exting	guishers				
Special Fire Figh	nting Procedures						
N.A.							
	l Explosion Hazar						
	1 ,	in fire - may explode					
Do not s	short-circuit batter	y - may cause burns.					





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Section I	X – Accidental Release or S	Spillage	
Steps to Be	Taken in Case Material is Released	or Spilled	
Batte	eries that are leakage should be handled with	rubber gloves.	
Avo	id direct contact with electrolyte.		
Wea	r protective clothing and a positive pressure S	elf-Contained Breathing Apparatus (SCBA).	
Section X	( - Handling and Storage		
Safe handlin	ng and storage advice		
Ba	tteries should be handled and stored carefully	to avoid short circuits.	
Do	not store in disorderly fashion, or allow met	al objects to be mixed with stored batteries.	
Ne	ever disassemble a battery.		
Do	not breathe cell vapors or touch internal ma	terial with bare hands.	
Ke	ep batteries between -30°C and 35°C for pro-	long storage.	
Section >	(I – Exposure Controls / Pe	rson Protection	
Occupational E	Exposure 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	
	N.A.	N.A.	
Other Protectiv	re Clothing or Equipment		
	N.A.		
Work / Hygien			
	N.A.		
Section >	(II – Ecological Information		
	N.A.		
0 11 1	/III B: 114 :: 1		
Section >	(III – Disposal Method		
Dispose	of batteries according to government regulat	ions.	





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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.