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IDENTITY (As Used on Label and List) Nickel Metal Hydride Battery	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 Mar	nufacturer
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 7 th Mar.2008
	Signature of Preparer (optional)

Section II - Hazardous Ingredients / Identity Information

Hazardous Components:

Hazardous Components:

A) The content of elements are based on homogeneous materials level of NiMH battery:

Element	Lead	Cadmium	Hexavalent Mercury		Polybrominated	Polybrominated Diphenyls Ethers
			Chromium (Cr ⁶⁺)		Biphenyls (PBBs)	(PBDEs)
Limit (mg/kg)	<1000	<100	<1000	<1000	<1000	<1000
CAS no.	7439-92-1	7440-43-9	18540-29-9	7439-97-6	59536-65-1	

B) The content of elements are based on total weight of NiMH battery:

Element	Lead	Cadmi	um	Hexavalent		Mercury	Polybrominated	Polybrominated Diphenyl Ethers
				Chromium (Cr ⁶⁺)			Biphenyls (PBBs)	(PBDEs)
Limit (mg/kg)	<40	<20	<5			<5	Nil	Nil
Element			30% KOH (Potassiun			aOH Solution m Hyroxide)		

Element	Ni(OH)2 (Nickel	30% KOH Solution	30% NaOH Solution
	Hydroxide)	(Potassium Hydroxide)	(Sodium Hyroxide)
Limit (wt%)	<30%	<20%	<20%
CAS no.	12054-48-7	1310-58-3	1310-73-2

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			_

Solubility in Water

N.A

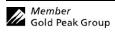
Appearance and Odor

Cylindrical Shape, odorless

Section IV – Hazard Classification

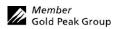
Classification

N.A



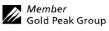


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Cootion V	Doootivit	v Doto							
Stability	- Reactivit	y Dala	Condition	ns to Avoid					
Stability	Unstable		Condition	is to Avoid					
	Stable	Х							
Incompatibility (Materials to Avoi	d)							
Hazardous Deco	mposition or Bypr	roducts							
Hazardous	May Occur		Condition	ns to Avoid					
Polymerization	Will Not Occur								
		X							
Section \/I	I Haalth H	azard Data							
Route(s) of	і - пеаші п	Inhalation?		Skin?			Ingestion?		
Entry		imalation:	N.A			N.A.	ingestion:	N.A.	
Health Hazar	d (Acute and C	Chronic) / Toxio	rlogical i	nformation					
Treatur Trazar	a (ricute ana c	omome) / Toxic	nogicai i	mormation					
		age, skin will be ito			electrolyte				
In conta	ct with electrolyte	can cause severe i	rritation an	d chemical burns.					
Inhalatio	on of electrolyte v	apors may cause in	ritation of t	he upper respirator	ry tract an	d lungs.			
		d Measures							
First Aid Pro	cedures								
If electr	olyte leakage occu	irs and makes conta	act with ski	in, wash with plent	y of water	immediately.			
If electr	olyte comes into c	ontact with eyes, w	ash with c	opious amounts of	water for	fifteen (15) m	inutes, and con	tact a physician.	
If electr	olyte vapors are in	haled, provide fres	h air and s	eek medical attenti	on if respi	ratory irritatio	n develops. Ve	ntilate the contaminated area.	
Section VI	III - Fire and	d Explosion	Hazar	d Data					
Flash Point (Met		Ignition Temp.		Flammable Limits	3	LEL		UEL	
	.A.	N.A.		N.A.		N	.A.	N.A.	
Extinguishing M	ledia								
	<u> </u>	mical or Foam exti	nguishers c	can be used for batt	tery BUT	water extingui	sher is not suit	ible.	
Special Fire Figh	nting Procedures								
N.A.	d Explosion Hazar	do							
	•	as in fire - may explo	de						
		y - may cause burn							
		,, -uase outi							





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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	Self-Contained Breathing Apparatus (SCBA).	
Section >	(– Handling and Storage		
	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 mat	erial with bare hands.	
W	pep batteries between -20°C and 35°C for pro- hen the cells are closed to fully charged, the s insportation and packed with efficient air ven	torage temperature should be between -20°C and 30°C	C and should be controlled at 10-20°C during
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 Glov		Eye Protection	
	N.A.	N.A.	
Other Protectiv	e Clothing or Equipment N.A.		
Work / Hygien			
Work / Hygich	N.A.		
Section >	(II – Ecological Information		
	N.A.		
Section >	(III – Disposal Method		
Dispose	of batteries according to government regulat	Ons.	





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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). The only requirements for shipping these batteries by ICAO and IATA is Special Provision A123 which states: "An electrical battery or battery powered device having the potential of dangerous evolutions of heat that is not prepared so as to prevent a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or in the case of equipment, by disconnection of the battery and protection of exposed terminals) is forbidden from transportation." The international Maritime Dangerous Goods Code (IMDG) regulate them for ocean transportation under Special Provision 304 which says: Batteries, dry, containing corrosive electrolyte which will not flow out of the battery if the battery case is cracked are not subject to the provision of this Code provided the batteries are securely packed and protected against short-circuits. Example of such batteries are: alkali-manganese, zinc-carbon, sliver oxide, nickel metal hydride and nickel-cadmium batteries which are non-dangerous goods. Such batteries have been packed in inner packaging in such a manner as to effectively prevent short circuit and movement that could lead to short circuit.

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 Carbon Dioxide, Dry Chemical or Foam extinguishers 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.