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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						
Nickel Metal Hydride Battery	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,							
	Date of prepared and revision						
Kwai Chung, N.T. H.K.	1st April 2010						
	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	P	Polybrominated	Polyb	prominated Diphenyl Ethers
				Chromium (Cr ⁶⁺)		E	Biphenyls (PBBs)	(PBD	DEs)
Limit (mg/kg)	<40	<20		<5		<5	N	Vil	Nil	
Element	Ni(OH)2 (Nick	tel	30% KOH	Solution	30% N	aOH Solution		Non-Hazardous Mater	rials	
	Hydroxide)		(Potassium	Hydroxide)	(Sodiu	m Hyroxide)				
Limit (wt%)	<30%		<20%		<20%)		<30%		
CAS no.	12054-48-7		1310-58	-3	1310-	-73-2				

Section III - Physical / Chemical Characteristics

Boiling Point	Specific Gravity (H ₂ O=1)		<u>.</u>
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			
NΔ			

N.A

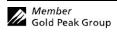
Appearance and Odor

Cylindrical Shape, odorless

Section IV – Hazard Classification

Classification

N.A



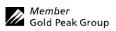


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	Reactivit	y Data							
Stability	Unstable		Condition	ns to Avoid					
	Stable								
		X							
Incompatibility (Materials to Avoi	d)							
Hazardous Deco	mposition or Bypi	oducts							
Hazardous Polymerization	May Occur		Conditio	ns to Avoid					
Polymerization	Will Not Occur								
		X							
Section VI	- Health H	azard Data							
Route(s) of		Inhalation?		Skin	?	Ing	gestion?		
Entry			N.	Α.		N.A.			N.A.
Health Hazar	d (Acute and C	Chronic) / Toxio	clogical	information	1				
11001011 110001	0 (110000 0110)	, , , , , , , , , , , , , , , , , , , ,	1081041		•				
In case of	of electrolyte leak	age, skin will be ito	hv when c	ontaminated v	vith electrolyte.				
		can cause severe i							
		apors may cause in				l lunge			
	on or electroryte v	apors may cause m	Thatfoll of	пе иррег тезр	matory tract and	i iungs.			
		d Measures							
First Aid Pro	cedures								
If electr	olyte leakage occı	irs and makes conta	act with sk	in, wash with	plenty of water	immediately.			
If electr	olyte comes into c	ontact with eyes, w	ash with o	opious amour	nts of water for	fifteen (15) minutes	s, and con	tact a physiciar	n.
If electr	olyte vapors are ir	haled, provide fres	h air and s	eek medical a	ttention if respi	ratory irritation dev	elops. Ve	ntilate the cont	taminated area.
	If electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops. Ventilate the contaminated area.								
Section VIII - Fire and Explosion Hazard Data									
				G Data Flammable L	imita	LEL		UEL	
Flash Point (Met		Ignition Temp.						UEL	N. A
	.A.	N.A.		N	.A.	N.A.			N.A.
Extinguishing Media									
Carbon Dioxide, Dry Chemical or Foam extinguishers can be used for battery BUT water extinguisher is not suitable.									
Special Fire Fighting Procedures									
N.A.									
Unusual Fire and Explosion Hazards									
Do not o	Do not dispose of battery in fire - may explode.								
Do not short-circuit battery - may cause burns.									

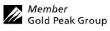
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Section IX	X – Accidental Release or S	Spillage	
	Taken in Case Material is Released		
Batte	eries that are leakage should be handled with	rubber gloves.	
Avoi	id direct contact with electrolyte.		
Wea	r protective clothing and a positive pressure S	elf-Contained Breathing Apparatus (SCBA).	
Section X	(– 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	ver disassemble a battery.		
Do	not breathe cell vapors or touch internal mat	erial with bare hands.	
WI	rep batteries between -20°C and 35°C for prolein the cells are closed to fully charged, the sensportation and packed with efficient air vent	torage temperature should be between -20°C and 30°C ar	nd should be controlled at 10-20°C during
Section X	(I – Exposure Controls / Pe	son 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		
Work / Hygiani	N.A.		
Work / Hygieni	N.A.		
Section X	(II – Ecological Information		
	N.A.		
Section X	(III – Disposal Method		
Dispose	of batteries according to government regulati	ons.	





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Section XIV – Transportation Information

In general, all batteries in all forms of transportation (ground, air, or ocean) must be packaged in a safe and responsible manner. Regulatory concerns from all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in "strong outer packaging" that prevents spillage of contents. All original packaging for GP nickel metal hydride batteries has been designed to be compliant with these regulatory concerns.

GP nickel metal hydride batteries (sometimes referred to as "Dry cell" batteries) are not defined as dangerous goods under the IATA Dangerous Goods Regulations. ICAO Technical Instructions and the U.S. hazardous materials regulations (49 CFR). These batteries are not subject to the dangerous goods regulations as they are compliant with the requirements contained in the following special provisions.

Regulatory Body	Special Provisions
ADR	295 – 304, 598
IMDG	UN 3028 Provisions 295 – 304
UN	UN 3028 Provisions 295 – 304
US DOT	49 CFR 172, 102 Provision 130
IATA	A123
ICAO	UN 3028 Provisions 295 – 304

In addition, the IATA Dangerous Goods Regulations and ICAO Technical Instructions require the words "not restricted" and the Special Provision number A123 be provided on the air waybill, when an air waybill is issued.

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.