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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 3rd January 2014
	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		Hexavalent		Mercury	Polybro	ominated	Polyl	prominated Diphenyl Ethers
				Chromium (Cr ⁶⁺)		Biphen	yls (PBBs)	(PBI	DEs)
Limit (mg/kg)	<40	<20		<5		<5	Nil		Nil	
Element	Ni(OH)2 (Nicl	kel	30% KOH	Solution	30% N	IaOH Solution	Non-	Hazardous Mate	erials	
	Hydroxide)		(Potassiun	n Hydroxide)	(Sodiu	m Hyroxide)				
Limit (wt%)	<30%		<20%		<20%	Ó	<30	%		
CAS no.	12054-48-7		1310-58	-3	1310	-73-2				

Section III - Physical / Chemical Characteristics

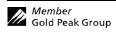
Boiling Point	Specific Gravity (H ₂ O=1)		
N.A.		N.A.	
Vapor Pressure (mm Hg)	Melting Point		
N.A.		N.A.	
Vapor Density (AIR=1)	Evaporation Rate (Butyl Acetate)		
N.A.		N.A.	
Solubility in Water			

Appearance and Odor

Cylindrical Shape, odorless

Section IV – Hazard Classification

Classification



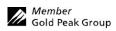


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Section V - Reactivity Data Stability Unstable Conditions to Avoid Stable X Incompatibility (Materials to Avoid) Hazardous Decomposition or Byproducts Hazardous Polymerization Will Not Occur X Section VI - Health Hazard Data Route(s) of Inhabation? Skin? Ingestion? Earry N.A. N.A. N.A. N.A. Health Hazard (Acute and Chronic) / Toxiclogical information In case of electrolyte leakage, skin will be itchy when contaminated with electrolyte. In contact with electrolyte can cause severe irritation and chemical burns. Inhabation of electrolyte vapors may cause irritation of the upper respiratory tract and lungs. Section VII - First Aid Measures First Aid Procedures If electrolyte leakage occurs and makes contact with skin, wash with plenty of water immediately. 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 Flash Point (Method Used) Ignition Temp. N.A. N.A. N.A. N.A. N.A. Sextinguishing Media Carbon Dioxide, Dry Chemical or Foam extinguishers can be used for battery BUT water extinguisher is not suitable. Special Fire Highting Procedures N.A. Unusual Fire and Explosion Hazards Do not dispose of battery in fire - may explode. Do not dispose of hattery in fire - may explode.	Stability Incompatibility (Hazardous Deco Hazardous	Unstable Stable Materials to Avoid mposition or Bypr May Occur	X		to Avoid				
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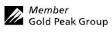


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Section IX	C – Accidental Release or S	Spillage							
	Taken in Case Material is Released								
Batter	Batteries that are leakage should be handled with rubber gloves.								
Avoid	d direct contact with electrolyte.								
Wear	protective clothing and a positive pressure S	Self-Contained Breathing App	aratus (SCBA).						
Section X	- Handling and Storage								
Safe handling	g and storage advice								
Batt	teries should be handled and stored carefully	to avoid short circuits.							
Do	not store in disorderly fashion, or allow meta-	al objects to be mixed with sto	ored batteries.						
Nev	ver disassemble a battery.								
Do	not breathe cell vapors or touch internal mat	erial with bare hands.							
	cells and batteries shall not be stored in higherwise the cells maybe leakage and can resu		temperature allowed is $60^\circ \! \mathbb{C}$ for a short period during the shipment ,						
Otti	erwise the cens maybe leakage and can resu	it in shortened cycle ine.							
Section X	I – Exposure Controls / Per	rson Protection							
Occupational Ex		STEP							
•	N.A.		N.A.						
Respiratory Prot	tection (Specify Type)								
	N.A.								
Ventilation	Local Exhausts	Special							
	N.A.		N.A.						
	Mechanical (General)	Other							
	N.A.		N.A.						
Protective Glove	es	Eye Protection							
	N.A.		N.A.						
Other Protective	Clothing or Equipment	·							
	N.A.								
Work / Hygienic	c Practices								
	N.A.								
Section X	II – Ecological Information								
	N.A.								
Section X	III - Disposal Method								
	•								
Dispose o	of batteries according to government regulati	ions.							

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Section XIV - Transportation Information

a) 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 55th edition 2014. 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
IMO	UN 3496 SP117 and SP963
UN	UN 3496
US DOT	49 CFR 172, 102 Provision 130
IATA	A123

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.

b) International Maritime Organization (IMO) IMDG Code regulated these products as UN 3496 BATTERIES, NICKEL METAL HYDRIDE, class 9 dangerous goods with Special Provision 117 and 963 assigned

SP117

Only regulated when transported by sea.

SP963

Nickel-metal hydride button cells or nickel-metal hydride cells or batteries packed with or contained in equipment are not subject to the provisions of this Code.

All other nickel-metal hydride cells or batteries shall be securely packed and protected from short circuit. They are not subject to other provisions of this Code provided that they are loaded in a cargo transport unit in a total quantity of less than 100 Kg gross mass. When loaded in a cargo transport unit in a total quantity of 100 Kg gross mass or more, they are not subject to other provisions of this Code except those of 5.4.1, 5.4.3 and column (16) of the dangerous good list in Chapter 3.2.

The requirements of these sections are:

- (1) dangerous goods transport documentation to accompany the shipment,
- (2) the shipment must be described as "UN3496, BATTERIES, NICKEL-METAL HYDRIDE, CLASS 9" on the shipper's declaration for dangerous
- (3) the dangerous goods description must also be entered on the Dangerous Cargo Manifest and/or the detailed stowage plan in compliance with the IMDG Code requirements for shipboard documentation.



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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.