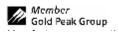


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Note: Blank spaces are not permitted if a	any item is not applicable	e or no information is available	e, the space must be marked to indicate that.		
Section I- Information of	Manufacturer				
Manufacturer's Name	International Ltd.	Emerg	Emergency Telephone Number		
Address (Number, Street, City, State, and ZIP Code)			Telephone Number for information		
8/F GP Building, 30 Kwai Chung, N.T. H.K.	Kwai Wing Road,		852-2484-3333  Date of prepared and revision		
Kwai Chung, N.1. H.K.		January 4, 2011			
		Signati	ure of Preparer (optional)		
Section II - Hazardous Ing Hazardous Components	gredients/Identi	ty Information			
Description:	CAS#	EINECS NO.	Approximate % of total weight		
Manganese dioxide	1313-13-9	215-202-6	<36 Wt%		
Zinc	7440-66-6	231-175-3	<13 Wt %		
Mercury	7439-97-6	231-106-7	<5 ppm		
Lead	7439-92-1	231-106-7	<5 ppm		
Cadmium	7440-43-9	231-152-8	Nil		
Sodium hydroxide and potassium hydroxide mixture, 30-35% solution	\	\	<16 Wt%		
Cr+6	\	\	Nil		
РВВ			Nil		
PBDE	\	\	Nil		
Phthalate	\	\	Nil		
Others		*****	<35 Wt%		
Section III - Physical/Che	mical Characte	eristics			
Form N.A.		Specific Gravity (F			
Boiling Point		Melting Point	N.A. Melting Point		
N.A. Vapor Pressure (mm Hg)		Evaporation Rate			
N.A.		(Buty1 Acetate=1)	(Buty1 Acetate=1) N.A.		
Vapor Density (AIR=1) N.A.		рН	pH N.A.		
Solubility in Water N.A.		Appearance and 0	Appearance and Odor N.A.		
Section IV-Hazard Classific	ation	1			
N.A.					
Section V - Reactivity Data	a				
Stability Yes= ( X )	Unstable ( )	Conditions to Avoi	Conditions to Avoid		
	Stable (X)				
Incompatibility (Materials to Avoid)	. (*)	<u>'</u>			
Hazardous Decomposition or By pr					





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Hazardous Reactions	May Occur Conditions to Avoid	
Yes = (X)	Will Not Occur	
Section VI – l	Health Hazard Data	
Route(s) of Entry Yes		N.A. )
Health Hazard (A	(Acute and Chronic ) / Toxicological in formation	
In case of electroly	olyte leakage, skin will be itchy when contaminated with electrolyte.	
In contact with ele	lectrolyte can cause severe irritation and chemical burns.	
Inhalation of elect	ctrolyte vapors may cause irritation of the upper respiratory tract and lungs.	
Section VII –	- First Aid Measures	
Firs aid Procedu	ures	
If electrolyte leaka	kage occurs and makes contact with skin, wash with plenty of water immediately.	
If electrolyte come	nes into contact with eyes, wash with copious amounts of water for fifteen minutes, and contact a	physician.
If electrolyte vapo	ors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops. Ven	ntilate the contaminated area.
Section VIII –	– Fire and Explosion Hazard Data	
Flash Point (Method	d Used ) Ignition temp. Flammable Limits LEL N.A. N.A. N.A. N.A.	UEL N.A.
Extinguishing Media		
Special Fire Fighting	ng Procedures N.A.	
Unusual Fire and Ex		
Do not dispose of	f battery in fire – may explode.	
Do not short – circ	rcuit battery – may cause burns.	
Section IX –	Accidental Release or Spillage	
Steps to Be Take	en in Case Material is Released or Spilled	
Batteries that are l	leaking should be handled with rubber gloves.	
Avoid direct conta	tact with electrolyte.	
Wear protective cl	clothing and a positive pressure Self-Contained Breathing Apparatus (SCBA).	
Section X – I	Handing and Storage	
Safe handing and	nd storage advice	
Batteries she	hould be handled and stored carefully to avoid short circuits.	
Do not store	re in disorderly fashion, or allow metal objects to be mixed with stored batteries.	
Never disas:	assemble a battery.	

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Do no	ot breathe cell vapors or touch internal material with	n bare hands.	
Keep	batteries between -30°C and 35°C for prolong stora	age.	
Section Y	KI – Exposure Controls / Persona	al Protection	
Occupational	Exposure Limits : LTEP N.A.	STEP N.A.	
Respiratory P	rotection (Specify Type) N.A.		
Ventilation	Local Exhausts N.A. Mechanical (general )	Special N.A. Other	
Protective Glo	N.A.	N.A. Eye Protection N.A.	
Other Protecti	ve Clothing or Equipment N.A.		
Work / Hygien	nic Practices N.A.		
Section Y	XII – Ecological Information		
	N.A.		
Section Y	XIII – Disposal Method		
Dispose of	f batteries according to government regulations.		

#### **Section XIV – Transportation Information**

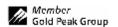
GP batteries are considered to be "Dry cell" batteries and are unregulated for purposes of transportation by the U.S. Department of Transportation (DOT), International Civil Aviation Administration (ICAO), International Air Transport Association (IATA) and International Maritime Dangerous Goods Regulations (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 is: alkali-manganese, zinc-carbon, and nickel metal hydride and nickel-cadmium batteries.

Non-dangerous goods.

Such battery has 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 regulatory.



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### 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.

GP Part No	Model No.	IEC
A76F	A76	LR44
162F	162	LR58
164F	164	LR621
171F	171	LR69
177F	177	LR626
186F	186	LR1142
189F	189	LR54
191F	191	LR1120
192F	192	LR41
PX625AF	PX625A	LR9
10AF	10A	\
11AF	11A	\
23AF	23A	\
29AF	29A	\
26AF	26A	\
27AF	27A	\
175F	175	5LR44
476AF	476A	4LR44
220AF	220A	10F15