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Note: Blank spaces are not permitted if	any item is not applicable	or no information is avail	able, the space must be marked	d to indicate that.	
Section I- Information of	Manufacturer				
Manufacturer's Name  GP Batteries International Ltd.			Emergency Telephone Number		
Address (Number, Street, City, State, and ZIP Code)			Telephone Number for information		
8/F GP Building, 30 Kwai Wing Road, Kwai Chung, N.T. H.K.			852-2484-3333 Date of prepared and revision		
	Sig	March 23, 2009 Signature of Preparer (optional)			
		0.5			
Section II - Hazardous Inc Hazardous Components	gredients/Identit	ty Information			
Description:	CAS#	EINECS NO.	Approximate % of	total weight	
Manganese dioxide	1313-13-9	215-202-6	<36 Wt%	<del>-</del>	
Zinc	7440-66-6	231-175-3	<13 Wt %		
Mercury	7439-97-6	231-106-7	<0.58 Wt %		
Lead	7439-92-1	231-106-7	<0.0066 Wt %		
Cadmium	7440-43-9	231-152-8	0		
Sodium hydroxide and potassium hydroxide mixture, 30-35% solution	\	\	<16 Wt%		
Cr+6	\	\	0		
PBB	\	\	0		
PBDE	\	\	0		
Phthalate	\	\	0		
Others	\	\	<51 Wt%		
Section III - Physical/Che	emical Characte	ristics			
Form N.A.		Specific Gravity	Specific Gravity (H2O =1)  N.A.		
Boiling Point		Melting Point			
Vapor Pressure (mm Hg)			Evaporation Rate		
Vapor Density (AIR=1)		(Buty1 Acetate	(Buty1 Acetate=1) N.A.		
N.A.		r	N.A.		
Solubility in Water N.A.		Appearance an	Appearance and Odor N.A.		
Section IV-Hazard Classific	cation				
N.A.					
Section V - Reactivity Date					
Stability Yes= ( X )	Unstable ( )	Conditions to A	void		
( ,	Stable				
Incompatibility (Materials to Avoid)	(X)				
, , ,					
Hazardous Decomposition or By pr When heated, batte		azardous vand	our of KOH / NaO	H and Ho	
Hazardous May Occ		Conditions to Avoid			
Reactions	( )				



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Yes = ( X )	Will Not Occur ( X )		
Section VI – Heal	lth Hazard Data		
Route(s) of Entry Yes = $(X)$	X) Inhalation? (N.A.)	Skin? Inges	tion?
Health Hazard (Acute	e and Chronic ) / Toxicologic	cal in formation	
In case of electrolyte leak	akage, skin will be itchy when conta	minated with electrolyte.	
In contact with electrolyt	yte can cause severe irritation and ch	nemical burns.	
Inhalation of electrolyte	e vapors may cause irritation of the u	apper respiratory tract and lungs.	
Section VII – Firs	st Aid Measures		
Firs aid Procedures			
If electrolyte leakage occ	ccurs and makes contact with skin, v	wash with plenty of water immediately.	
If electrolyte comes into	o contact with eyes, wash with copic	ous amounts of water for fifteen minutes, an	d contact a physician.
If electrolyte vapors are i	inhaled, provide fresh air and seek	medical attention if respiratory irritation de	velops. Ventilate the contaminated area.
Section VIII – Fire	re and Explosion Haza	rd Data	
Flash Point (Method Used )	l) Ignition temp. Fla N.A. N.A.	mmable Limits LEL N.A. N	UEL N.A.
Extinguishing Media	Carbon Dioxide, Dry Chemical or		
Special Fire Fighting Proce	redures N.A.	Touri Oxiniguishers	
Unusual Fire and Explosion			
Do not dispose of battery	ry in fire – may explode.		
Do not short – circuit bat	attery – may cause burns.		
Section IX – Acci	idental Release or Spil	lage	
Steps to Be Taken in C	Case Material is Released or	Spilled	
Batteries that are leaking	g should be handled with rubber glo	ves.	
Avoid direct contact with	th electrolyte.		
Wear protective clothing	g and a positive pressure Self-Conta	ined Breathing Apparatus (SCBA).	
Section X – Hand	ding and Storage		
Safe handing and stora	rage advice		
Batteries should be	pe handled and stored carefully to av	void short circuits.	
Do not store in disc	sorderly fashion, or allow metal obj	ects to be mixed with stored batteries.	
Never disassemble	le a battery.		
Do not breathe cell	ell vapors or touch internal material	with bare hands.	
Keep batteries betw	tween -30°C and 35°C for prolong s	storage.	



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Section XI – Exposure Controls / Personal Protection					
Occupational 1	Exposure Limits : LTEP N.A.	STEP N.A.			
Respiratory Pr	rotection (Specify Type) N.A.	·			
Ventilation	Local Exhausts N.A.	Special N.A.			
	Mechanical (general ) N.A.	Other N.A.			
Protective Gloves N.A.		Eye Protection N.A.			
Other Protecti	ve Clothing or Equipment N.A.	<u>'</u>			
Work / Hygier	nic Practices N.A.				
C - 4: X	/II F1				
Section X	III – Ecological Information				
	N.A.				

#### Section XIII – Disposal Method

Dispose of 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.

#### Section XVI - Other Information

The data in this Material Safety Data Sheet relates only to the specific material designated herein.



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#### **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.

Model No.	IEC
A76	LR44
A76P	LR44
162	LR58
164	LR621
171	LR69
177	LR626SW
186	LR1142
189	LR54
189E	LR54
191	LR1120
192	LR41
PX625A	LR9
10A	\
11A	\
23A	\
29A	\
26A	\
27A	\
476A	4LR44
220A	10F15

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