

Material Safety Data Sheet

Document number: BQS3001 Revision: 4 1 of 6

Model No.: GPA76

Note: Blank spaces are not permitted if any ite	m is not applicable or no	information is a	available, the space must be	marked to indicate that.		
Identity (As Used on Label and List)			Part Number			
GPA70	3		GPA76			
Section I- Information of Mar	ufacturer					
Manufacturer's Name GP Batteries Interes	national Ltd.		Emergency Telephone Nur	mber		
Address (Number, Street, City, State, and ZIP 8/F GP Building, 30 Kwa			Telephone Number for information 852-2484-3333			
Kwai Chung, N.T. H.K.	wing itout,		Date of prepared and revision			
			February 29, 2008 Signature of Preparer (optional)			
Section II - Hazardous Ingred	liante/Idantity In	formation	<u> </u>			
Hazardous Components:	Approximate weight of	of content in	Approximate % of total v	veight		
Description:	one piece of the o	cell (mg)				
Manganese dioxide			26~31	Wt %		
Zinc Mercury	5~6		9~11 0.27~0.33	Wt % Wt %		
Lead Cadmium			45~55 Nil	ppm		
Sodium hydroxide and potassium hydroxide mixture, 30-35% solution			9~11	Wt%		
Cr+6	0		0	Wt%		
PBB	0		0	Wt%		
PBDE	0		0	Wt%		
Phthalate	0		0	Wt%		
Others			47~56	Wt%		
Section III - Physical/Chemic	al Characteristi	cs				
Form N.A.		Specific Gra	vity (H2O =1) N.	A.		
Boiling Point N.A.		Melting Point				
Vapor Pressure (mm Hg)	Evaporation Rate					
N.A. Vapor Density (AIR=1)	(Buty1 Acetate=1) N.A.					
N.A. Solubility in Water	N.A. Appearance and Odor					
N.A.	N.A.					
Section IV-Hazard classification	on					
N.A.						
Section V - Reactivity Data		lo	- A			
Stability Yes= (X) Unstable ()		Conditions t	o Avoid			
Stable (X)						

Incompatibility (Materials to Avoid)

Hazardous Decomposition or By products

When heated, battery may emit hazardous vapour of KOH / NaOH and Hg



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()	Conditions to 7 word		
t Occur (X)			
zard Data			
Inhalation? (N.A.	Skin?) (N.A.)	Ingestion? (N.A	A.)
nronic) / Toxico	logical in formation	·	,
will be itchy when	contaminated with electrolyte.		
Measures			
nakes contact with s	kin, wash immediately.		
vith eyes, wash with	copious amounts of water for fifte	een minutes, and contact a phy	ysician.
Explosion H	azard Data		
Ignition temp. N.A.	Flammable Limits N.A.	LEL N.A.	UEL N.A.
N.A.	N.A.	N.A.	N.A.
Hazards			
may explode.			
y cause burns.			
Release or S	Spillage		
aterial is Release	ed or Spilled		
e handled with rubb	er gloves.		
rte.			
nd Storage			
rice			
e to adverse effects	of humidity. Be sure to store them	in a place that is dry and subj	ect to little temperature
iler or radiator, nor o	expose to direct sun light. Do not	dispose of the battery in fire. I	Do not charge the battery. I
	position. Do not store in disorder		
-	such manner can cause the battery		
- caucery, mananing in	such manner can cause the causer,	y to enprode, real and injury.	
Controls / De	organal Drataction		
LTEP	ersonal Protection STEP		
N.A.		N.A.	
N.A.	Γ		
e) —	N.A.	N.A. Special	

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Mechanical (ger	neral)	Other	
	N.A.	N.A.	
Protective Gloves		Eye Protection	
	N.A.	N.A.	
Other Protective Clothing or Equi	ipment	·	
	N.A.		
Work / Hygienic Practices			
	N.A.		
Section XII – Ecologi	ical Information		
	N.A.		
Saction VIII Dispos	sal Mathad		
Section XIII – Dispos	sal Method		

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." As of 1/1/97 IATA requires that batteries being transported by air must be protected from short-circuiting and protected from movement that could lead to short-circuiting

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.

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 Batteries

材料安全数据表

型号: GPA76

名称			型号			
碱性扣式电池				GPA76		
制造商名称 GP电池国际有限公司			紧急情况	联系电话		
地址(门牌号,街道,城市,州县,邮政编码)			联系电话			
香港新界葵涌葵荣路30号金山	工业中心8楼		修订日期		84-3333	
				2008年2 名(可选)	2月29日	
			S 11 / CIE.	1 (1/3)		
第二部分 - 危险成份信息 危险成份描述:	1 約 申	1池中含有量(mø)	百分含	름	
ALIENAMI INC.	173.1	710 T T T T T T	5)	171	±	
二氧化锰				26~31	Wt %	
锌				9~11	Wt %	
<u>汞</u> 铅		5~6		0.27~0.33 45~55	Wt %	
镉				Nil		
氢氧化钠, 氢氧化钾混合溶液 30-35%				9~11	Wt%	
六价铬		0		0	Wt%	
多溴联苯		0		0	Wt%	
多溴二苯醚		0		0	Wt%	
邻苯二甲酸盐		0		0	Wt%	
其它				47~56	Wt%	
第三部分 - 物理/化学特性						
形态 N.A.		比重 (水 =1))	N	.A.	
沸点 N.A.		熔点		N.	Δ	
蒸汽压力 (mm Hg)		蒸发率				
N.A. 相对密度 (空气=1)		(醋酸盐=1) PH值		N.A	Α.	
N.A. 溶解性		外观和气味		N	.A.	
N.A.		21.7964.h (1.91x		N	.A.	
第四部分 - 危险分级						
N.A.						
第五部分 - 反应数据		\I				
稳定性 不稳定 是=(X) ()		避免环境				
稳定						

当受热时,电池会释放出KOH/NaOH 和汞蒸汽

GP Batteries

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编号: BQS3	001	,	<i>饭本号:4</i>		5 o
危险反应	会发生	避	免环境		
是 =(X)	不会发生)			
Auto X Alice At Alice		X)			
第六部分 - 健康	危害数据	HT/ \	-+- 11.1.		
侵入途径 是 =(X)		吸入 (N.A.)	皮肤 (N.A.	食入) (N.A.)	
健康危害(急性和	慢性)/毒理学校	内成			
如电解液泄漏, 皮	肤接触电解液会发料	羊。			
第七部分 - 急救	措施				
急救程序					
如电解液发生泄漏,	皮肤接触, 立即用	水冲洗。			
如电解液接触眼睛	, 用大量水冲洗十	五分钟, 就医。			
	和燃爆粉捉				
闪点	燃点	易燃	变	下限	上限
灭火方法	N.A.	N.A.	N.A.	N.A.	N.A.
	N.A.				
特别灭火程序	N.A.				
不寻常燃烧及爆炸	作之危害				
勿弃于火中 – 会爆	炸。				
勿使电池短路 – 可	能导致灼伤。				
第九部分 - 意外	泄漏				
如遇泄漏采取的步骤					
电池漏液时应佩戴	象胶手套进行处置。				
避免直接接触电解剂	 夜。				
	 和储存				
安全操作和储存泵					
		角保储存在干燥且溫	且差小的地方。 勿靠i	近锅炉和散热器, 勿暴露于	太阳直射处。 勿丢弃
勿给电池充电。勿	使电池短路。勿将时	电池方向装反。 勿	使电池混乱摆放, 司	戊 与金属物件混合储存。勿折	开电池, 因为可能导
2.2,2 2, 2,	: 0				

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材料安全数据表

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人 // 编 J. DQUUUI		0 01

第十一部	分 - 暴露控制 / 个	入防护			
职业暴露限	值: 下限		上限		
		N.A.		N.A.	
呼吸系统防	护				
		N.A.			
通风	地区性排气		特别		
, ,		N.A.		N.A.	
	机械		其他		
		N.A.		N.A.	
手防护			眼睛防护		
		N.A.		N.A.	
其他防护服!	或设备				
		N.A.			
工作/卫生惯	技例				
		N.A.			
第十二部	分 - 生态学信息				
		N.A.			
第十三部	分 – 废弃方法				
依照政府	F法规进行处置		_		

第十四部分 - 运输信息

GP电池是干电池,它的运输条件不受美国运输部、国际民间航空组织、国际航空运输协会和国际海运危险货物规则的限制。美国运输部特别130条款规定:"干电池运输时,在远离热源的情况下,可以作为普通货物运输(例如,有效的避免暴晒)。123条款规定:"电池或者以电池为动力的装置如果未采取预防短路的措施是禁止运输的,因为会有发热的潜在危险(例如电池需将暴露的两极有效绝缘;以电池为动力的装置需断开电池,保护暴露的终端)。国际航空运输协会1/1/97版本要求:空运这种电池必须防止短路和可能导致短路的移动。

第十五部分 - 调整信息

依照当地特殊要求调整。

第十六部分 - 其他信息

本材料安全数据表的数据仅针对此指定的材料。

第十七部分 - 灭火方法

如发生燃烧,允许使用任意类性的灭火媒体,如电池暴露于火中,为避免爆裂可冷却电池表面。 灭火人员应佩戴呼吸器。