

## Material Safety Data Sheet

Product Name : 9V Alkaline Battery

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Model No.: 1604A

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 must be marked to indicate that.					
Section I – Information of Manufacturer						
Manufacturer's Name GPB(M) Sdn. Bhd.	Emergency Telephone Number					
Address (Number, Street, City State, and ZIP Code) No.5, Jalan Tampoi 7,	Telephone Number for information 07-3300033					
Kawasan Perindustrian Tampoi, Johor Bahru, Malaysia	Date of prepared and revision 2 <sup>nd</sup> January 2019					
	Signature of Preparer (optional)					

## Section II - Hazardous Ingredients / Identity Information

#### **Hazardous Components:**

Description:		Approximate % of to	tal weight	Remarks
Mercury (Hg)	:	< 1	ppm	Impurity or non-added content
Lead (Pb)	:	< 25	ppm	Impurity or non-added content
Cadmium (Cd)	:	< 3	ppm	Impurity or non-added content
Hexavalent Chromium (Cr <sup>6+</sup> )	:	< 3	ppm	Impurity or non-added content
Polybrominated Biphenyls (PBBs)	:	N/A		
Polybrominated Diphenyl Ethers (PBDEs)	:	N/A		
MnO2	:	29	%	
Zn	:	10	%	
KOH (40%)	:	15	%	

## Section III - Physical / Chemical Characteristics

Boiling Point	Specific Gravity (H <sub>2</sub> O=1) N.A.
N.A.	
Vapor Pressure (mm Hg) N.A.	Melting Point N.A.
Vapor Density (AIR=1) N.A.	Evaporation Rate (Butyl Acetate) N.A.
Solubility in Water N.A.	
Appearance and Odor NA	

## Section IV - Hazard Identification

GHS Classification : N/A Signal Word : N/A Hazard Classification : N/A Pictogram : N/A

Under normal condition of use, the battery is hermetically sealed

Member
Gold Peak Group

Manufacturer reserves the right to alter or amend the design, model and specification without prior notice.



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Section V	<ul> <li>Reactivity</li> </ul>	/ Data						
Stability	Unstable ( )	Conditions to Avoid						
	Stable (x)	Do not heat, crush, disassemble, short circuit or recharge.						
Hazardous Reactions Yes = (X)	May Occur	Conditions to Avoid N/A						
	Will Not Occur (X)							
Section VI	- Health Ha	azard Data						
Route(s) of Entry		Inhalation?	n? (N.A.)					
		(N.A.)	(N.A.)					
Health Hazard	d (Acute and C	hronic) / Toxicologic	al information					
In case of elec	ctrolyte leakage	e, skin will be itchy w	when contaminated wit	h electrolyte.				
In contact wit	h electrolyte ca	an cause severe irritat	tion and chemical burn	S.				
	<del>-</del>		on of the upper respira					
Section VI First Aid Proc	I – First Aid	Measures						
1 1130 7 110 1 100	caures							
If electrolyte	leakage occurs	and makes contact w	rith skin, wash with ple	enty of water immediat	ely.			
If electrolyte	comes into co	ntact with eyes, was	h with copious amou	nts of water for fifteen	n (15) minutes, and contact a			
physician.								
If electrolyte	vapors are inha	lled, provide fresh air	and seek medical atte	ntion if respiratory irrit	tation develops. Ventilate the			
contaminated	area.							
		Explosion Haz		k mr	kvov			
Flash Point (Metl		Ignition Temp.	Flammable Limits	LEL	UEL			
Extinguishing Me	.A.	N.A.	N.A.	N.A.	N.A.			
	for surrounding a	rea.						
	ting Procedures N							
Unusual Fire	and Explosion	Hazards						
Do not dispos	se of battery in	fire - may explode.						
Do not short-o	circuit battery -	may cause burns.						
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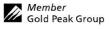
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# **GP** Batteries

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Document Number: RPKS0112 Revision: 8 Page 3 of 4 Section IX – Accidental Release or Spillage Steps to Be Taken in Case Material is Released or Spilled Batteries that are leakage should be handled with rubber gloves. Avoid direct contact with electrolyte. Wear protective clothing and a positive pressure Self-Contained Breathing Apparatus (SCBA). Section X – Handling and Storage Safe handling and storage advice Batteries should be handled and stored carefully to avoid short circuits. Do not store in disorderly fashion, or allow metal objects to be mixed with stored batteries. Never disassemble a battery. Do not mix battery system in same equipment. Do not breathe cell vapors or touch internal material with bare hands. Keep batteries at cool and dry storage condition. Section XI – Exposure Controls / Person Protection Occupational Exposure Limits: LTEP NΑ Respiratory Protection (Specify Type) N.A. Ventilation Local Exhausts Special N.A. N.A. Mechanical (General) Other N.A. N A Protective Gloves N.A. Eye Protection Other Protective Clothing or Equipment N.A. Work / Hygienic Practices Section XII - Ecological Information Section XIII - Disposal Method Dispose of batteries according to government regulations.

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### 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) 60th edition Special Provision A123 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). 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 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 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.

