

Unusual Fire and Explosion Hazards
When exposed to excess heat, cell may burst

For RadioShack Cat. No.: 23-528[C]

MATERIAL SAFETY D	ATA SHEET			Date: 3 Jan, 2003		
Identity (As Used on Label and List)		Note: Blank spaces are not permitted if may item is not applicable or no				
GP180AAHC		information is av	ailable, the space n	nust be marked to indicate that	t.	
Section I						
Manufacturer's Name	Emergency Telephone Number					
GPI International Ltd. / GP Batteries (U.S.A.) Inc.						
Address (Number, Street, City, State, and ZIP Code)		Telephone Number for information				
3/F, Gold Peak Building, 30 Kwai Wing Road, Kwai Ch	(852) 2484 3333					
11235 West Bernardo Court, San Diego, CA92127-163	(619) 674 5620					
Section II - Hazardous Ingredients	s/Identity Information					
Hazardous Components:						
Description:	Approximate	% of total weight				
		-				
Ni(OH)2 (Nickel Hydroxide)	; 23.6	Wt%				
30% KOH Solution (Potassium Hydroxide)	; 9.8	Wt%				
Mercury	; <5 ppm					
•	***					
Lead	; Nil					
	·					
cadmium	; Nil					
Section III - Physical/Chemical Ch	naracteristics					
Boiling point	Specific Gravity (H20	vity (H2O=1)				
N.A.		N.A.				
Vapor Pressure (mm Hg)	Melting Point					
N.A.		N.A.				
Vapor Density (AIR =1)	Evaporation Rate					
N.A.	*	(Butyl Acetate =1) N.A.				
Solubility in Water	, , , , , , , , , , , , , , , , , , , ,					
N.A.						
Appearance and Odor						
Cylindrial Shape,	odorless					
Section IV - Fire and Explosion Ha						
Flash Point (Method Used)	Flammable Li	mits	LEL	UEL		
N.A.		N.A.	N.A.	N.A.		
Extingushing Media		11.21.	11.21.	11,71,		
N.A.						
Special Fire Fighting Procedures						
N.A.						
N.A.						



Section V	- Reactivity Data								
Stability	Unstable	Conditions to Avoid							
	Stable X								
Incompatibility (I	Materials to Avoid)								
Hazardous Decon	nposition or Byproducts								
When heated, bat	tery may emit hazardous vapo	urs of KOH/NaOH & Hg.							
Hazardous	May Occur	Conditions to Avoid							
reactions									
	Will Not Occur X								
Coation \/I	Llootth Llozord [	) oto							
	- Health Hazard [			.: 0					
Route(s) of Entry	Inhalatio		_	estion?					
TT 1:1 TT 1:4	1.01	N.A.	N.A.		N.A.				
Health Hazard (A	cute and Chronic)	NI A							
Caraina	NTP?	N.A.	Managements? Of	IIA D1	-4-10				
Carcinogenicity	NIP!	LARC	Monographs? OS	HA Regul	ated?				
		N.A.	N.A.		N.A.				
Signs and Sympto	oms of Exposure	N.A.	N.A.		N.A.				
	yte leakage, skin will be itchly	when contaminated by elec	trolyte						
Medical Condition	•	when committee of elec	a ory to:						
	ated by Exposure	N.A.							
	First Aid Procedures								
		immediately with water. Fo	r eye contact, flush w	ith copiou	s amounts of water for 15 minutes				
and see physian.		·							
Section VI	I - Precautions for	Safe Handling a	nd Use						
	n in Case Material is Released								
-		•	rom leaker comes in c	contact wit	h skin, wash immediately with				
Use neoprene, rubber latex-nitrile gloves when handling leakers. If liquid from leaker comes in contact with skin, wash immediately with water. For eye contact, flush with copious amounts of water for 15 minutes and see physian.									
	,								
Waste Disposal M	Tethod								
-	since battery may explode.								
	· · · ·								
Precaution to Be	Taken in Handling and Storin	g							
The battery is extremely sensitive to adverse effect of humidity. Be sure to store them in a place which is dry and subject to little temperature									
change. Do not place near the boiler or radiator, nor expose to the direct sunlight. Do not dispose of the battery in fire. Do not charge the battery.									
Do not short-circuit the battery. Do not put in backward position. Do not disassemble the battery, handling in such manner can cause the battery									
to explode, leak and injury.									
Other Precautions									
Install batteries in accordance with equipment instructions. Replace all batteries in equipment at the same time. Do not mix battery systems of									
different types. Do not carry batteries loose in your pocket or carrying bag. Check batteries periodically when in use.									
Section VI	II - Control Measu	res							
-	ction (Specify Type)								
	(op)								
Ventilation	Local Exhausts		Special						
		N.A.		N.A.					
	Mechanical (General)		Other						
		N.A.		N.A.					
Protective Gloves	3		Eye Protection						
		N.A.		N.A.					
Other Protective	Clothing or Equipment								
		N.A.							
Work/Hygenic Pr	ractices								
		N.A.							