

Material Safety Data Sheet

Issuing Date 12-May-2011

Revision Date 09-May-2011

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Toshiba , R6KG AA size , Carbon Zinc Battery

Recommended Use Toys.

Supplier Address

Andy & Tomy Co., Ltd.
No.122,Sec.9,Yen Ping North Road,
Taipei, Taiwan, 111
TW
Phone:886-2-28100762
Contact:Liu , Chang Kuo
Contact Phone:886-932922872
Emergency Phone: 886-932922872

Company Emergency Phone Number 886-932922872

2. HAZARDS IDENTIFICATION

Emergency Overview

Warning! Contains lead
This product is an article. No exposure to hazardous chemicals is expected to occur during intended product use.
Misuse of the product may result in exposure to hazardous chemicals.

Appearance Gold

Physical State Solid.

Odor No information available

Potential Health Effects

Principle Routes of Exposure Eye contact. Skin contact.

Acute Toxicity

Eyes

In case of rupture: Causes burns. Corrosive to the eyes and may cause severe damage including blindness.

Skin

In case of rupture: Causes burns.

Inhalation

Not an expected route of exposure.

Ingestion

In case of rupture: Harmful if swallowed. Can burn mouth, throat, and stomach.

Chronic Effects

Lead compounds may be absorbed by ingestion, by inhalation and through the skin. Lead may damage kidney function, the blood forming system and the reproductive system. Inorganic lead compounds can cause developmental damage.

Aggravated Medical Conditions

Kidney disorders. Blood disorders. Reproductive system.

Environmental Hazard

See Section 12 for additional Ecological Information. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Zinc	7440-66-6	30-60

Manganese dioxide	1313-13-9	15-40
Iron	7439-89-6	15-40
Carbon black	1333-86-4	15-40
Zinc chloride	7646-85-7	5-10
Paper	RR-01108-5	1 - 5
Ammonium chloride	12125-02-9	0.1 - 1
Lead	7439-92-1	0.1-0.16

4. FIRST AID MEASURES

General Advice	First aid is upon rupture of sealed battery.
Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
Skin Contact	Immediate medical attention is required. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. Call a physician or Poison Control Center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion	Call a physician immediately. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.
Notes to Physician	Treat symptomatically.
Protection of First-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable.
Flash Point	Not determined.
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous Combustion Products	Hazardous metal fumes and oxides.
Explosion Data	
Sensitivity to Mechanical Impact	No.
Sensitivity to Static Discharge	No.

Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. Sealed containers may rupture when heated

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA **Health Hazard** 1 **Flammability** 0 **Stability** 0 **Physical and Chemical Hazards** -

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Keep people away from and upwind of spill/leak.
Environmental Precautions	Prevent product from entering drains.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly. Use personal protective equipment.
Other Information	Refer to protective measures listed in Sections 7 and 8.

7. HANDLING AND STORAGE

Handling	In case of rupture: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Manganese dioxide 1313-13-9	TWA: 0.2 mg/m ³ Mn	(vacated) Ceiling: 5 mg/m ³ Ceiling: 5 mg/m ³ Mn	IDLH: 500 mg/m ³ Mn TWA: 1 mg/m ³ Mn STEL: 3 mg/m ³ Mn
Carbon black 1333-86-4	TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH
Zinc chloride 7646-85-7	STEL: 2 mg/m ³ fume TWA: 1 mg/m ³ fume	TWA: 1 mg/m ³ fume (vacated) TWA: 1 mg/m ³ fume (vacated) STEL: 2 mg/m ³ fume	IDLH: 50 mg/m ³ fume TWA: 1 mg/m ³ fume STEL: 2 mg/m ³ fume
Ammonium chloride 12125-02-9	STEL: 20 mg/m ³ fume TWA: 10 mg/m ³ fume	(vacated) TWA: 10 mg/m ³ (vacated) STEL: 20 mg/m ³	TWA: 10 mg/m ³ fume STEL: 20 mg/m ³ fume
Lead 7439-92-1	TWA: 0.05 mg/m ³	TWA: 50 µg/m ³ Action Level: 30 µg/m ³ Poison, See 29 CFR 1910.1025	IDLH: 100 mg/m ³ TWA: 0.050 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).
Engineering Measures	Showers Eyewash stations Ventilation systems
Personal Protective Equipment	
Eye/Face Protection	Tightly fitting safety goggles.
Skin and Body Protection	Protective gloves.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Gold.	Odor	No information available.
Odor Threshold	No information available.	Physical State	Solid
pH	No information available		
Flash Point	No information available.	Autoignition Temperature	No information available
Decomposition Temperature	No information available	Boiling Point/Range	No information available
Melting Point/Range	No information available		
Flammability Limits in Air	No information available	Explosion Limits	No information available
Water Solubility	Not miscible; difficult to mix	Solubility	No information available
Evaporation Rate	No information available	Vapor Pressure	No data available
Vapor Density	No data available	VOC Content (%)	Not applicable
Partition Coefficient: n-octanol/water			

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	Incompatible with strong acids and bases. Incompatible with oxidizing agents.
Conditions to Avoid	Exposure to air or moisture over prolonged periods.
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapors. Metal oxides.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

LD50 Oral VALUE 275

LD50 Dermal VALUE

LC50 Inhalation (DUST) VALUE

LC50 Inhalation (VAPOR) VALUE

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Manganese dioxide	= 9000 mg/kg (Rat)	-	-
Iron	984 mg/kg (Rat)	-	-
Carbon black	15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
Zinc chloride	= 350 mg/kg (Rat)	-	-
Ammonium chloride	1410 mg/kg (Rat)	-	-

Chronic Toxicity

Chronic Toxicity Lead compounds may be absorbed by ingestion, by inhalation and through the skin. Lead may damage kidney function, the blood forming system and the reproductive system. Inorganic lead compounds can cause developmental damage.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Carbon black		Group 2B		X
Lead	A3	Group 2A	Reasonably Anticipated	X

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

Target Organ Effects

Kidney. Blood. Reproductive system.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

The environmental impact of this product has not been fully investigated. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Zinc	EC50: 0.09 - 0.125 mg/L (72 h static) <i>Pseudokirchneriella subcapitata</i> EC50: 0.11 - 0.271 mg/L (96 h static) <i>Pseudokirchneriella subcapitata</i>	LC50: 2.16-3.05 mg/L (96 h flow-through) <i>Pimephales promelas</i> LC50: 7.8 mg/L (96 h static) <i>Cyprinus carpio</i> LC50: 0.45 mg/L (96 h semi-static) <i>Cyprinus carpio</i> LC50: 30 mg/L (96 h) <i>Cyprinus carpio</i> LC50: 0.59 mg/L (96 h semi-static) <i>Oncorhynchus mykiss</i> LC50: 0.41 mg/L (96 h static) <i>Oncorhynchus mykiss</i> LC50: 3.5 mg/L (96 h static) <i>Lepomis macrochirus</i> LC50: 0.211-0.269 mg/L (96 h semi-static) <i>Pimephales promelas</i> LC50: 0.24 mg/L (96 h flow-through) <i>Oncorhynchus mykiss</i> LC50: 2.66 mg/L (96 h static) <i>Pimephales promelas</i>		EC50: 0.139 - 0.908 mg/L (48 h Static) <i>Daphnia magna</i>
Iron		LC50: 0.56 mg/L (96 h semi-static) <i>Cyprinus carpio</i> LC50: 13.6 mg/L (96 h static) <i>Morone saxatilis</i>		
Carbon black				EC50: > 5600 mg/L (24 h) <i>Daphnia magna</i>
Ammonium chloride		LC50: 725 mg/L (24 h) <i>Lepomis macrochirus</i> LC50: 209 mg/L (96 h static) <i>Cyprinus carpio</i>		LC50: 202 mg/L (24 h) <i>Daphnia magna</i>
Lead		LC50: 0.44 mg/L (96 h semi-static) <i>Cyprinus carpio</i> LC50: 1.17 mg/L (96 h flow-through) <i>Oncorhynchus mykiss</i> LC50: 1.32 mg/L (96 h static) <i>Oncorhynchus mykiss</i>		EC50: 600 µg/L (48 h) water flea

Chemical Name	Log Pow
Manganese dioxide	0

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated Packaging Do not re-use empty containers.

US EPA Waste Number D008

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Lead - 7439-92-1	(hazardous constituent - no waste number)	Included in waste streams: F035, F037, F038, F039, K002, K003, K005, K046, K048, K049, K051, K052, K061, K062, K064, K065, K066, K069, K086, K100, K176	= 5.0 mg/L regulatory level	

California Hazardous Waste Codes 181

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California EHW	California Carc	California Hazardous Waste	California Waste - Part 2
Zinc			Ignitable powder	STLC (for PBTs): 250 mg/L TTLC (for PBTs): 5000 mg/kg
Zinc chloride			Toxic Corrosive	STLC (for PBTs): 250 mg/L TTLC (for PBTs): 5000 mg/kg
Lead			Toxic	TCLP (for CA Toxicity): 5.0 mg/L

14. TRANSPORT INFORMATION

DOT Not regulated
Proper Shipping Name Non regulated
Hazard Class N/A

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated
Proper Shipping Name Non regulated
Hazard Class N/A

IMDG/IMO Not regulated
Hazard Class N/A
Marine Pollutant Product is a marine pollutant according to the criteria set by IMDG/IMO

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Exempt
DSL	Does not Comply
EINECS/ELINCS	Does not Comply
ENCS	Does not Comply
IECSC	Does not Comply
KECL	Does not Comply
PICCS	Does not Comply
AICS	Does not Comply

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Zinc	7440-66-6	30-60	1.0
Manganese dioxide	1313-13-9	15-40	1.0
Zinc chloride	7646-85-7	5-10	1.0
Ammonium chloride	12125-02-9	0.1 - 1	1.0
Lead	7439-92-1	0.1-0.16	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	- Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc		X	X	
Zinc chloride	1000 lb	X		X
Ammonium chloride	5000 lb			X
Lead		X	X	

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Manganese dioxide	1313-13-9	15-40				
Lead	7439-92-1	0.1-0.16				

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Zinc	1000 lb	
Zinc chloride	1000 lb	

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Ammonium chloride	5000 lb	
Lead	10 lb	

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Carbon black	1333-86-4	Carcinogen
Lead	7439-92-1	Carcinogen Developmental Female Reproductive Male Reproductive

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Carbon black	X	X	X	X	X
Zinc	X	X	X		X
Lead	X	X	X	X	X
Zinc chloride	X	X	X		X
Manganese dioxide			X	X	
Ammonium chloride	X	X	X		X

International Regulations

Mexico - Grade

Moderate risk, Grade 2

Chemical Name	Carcinogen Status	Exposure Limits
Carbon black		Mexico: TWA 3.5 mg/m ³ Mexico: STEL 7 mg/m ³
Lead	A3	Mexico: TWA= 0.15 mg/m ³
Zinc chloride		Mexico: TWA 1 mg/m ³ Mexico: STEL 2 mg/m ³
Manganese dioxide		Mexico: TWA= 0.2 mg/m ³
Ammonium chloride		Mexico: TWA 10 mg/m ³ Mexico: STEL 20 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Non-controlled

Chemical Name	NPRI
Zinc	X
Lead	X
Zinc chloride	X
Manganese dioxide	X

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Issuing Date	12-May-2011
Revision Date	09-May-2011
Revision Note	No information available

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

GP Batteries

Material Safety Data Sheet for GP Cylindrical Alkaline Battery

Document Number: MAA100

Revision:08

Page 1 of 4

IDENTITY (As Used on Label and List) Alkaline battery	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.
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Section I

Manufacturer's Name GPI International Ltd.	Emergency Telephone Number
Address (Number, Street, City State, and ZIP Code) 8/F GP Building, 30 Kwai Wing Road, Kwai Chung, N.T. H.K.	Telephone Number for information 852-2484-3333
	Date of prepared and revision April 1, 2010
	Signature of Prepare (optional)

Section II - Hazardous Ingredients / Identity Information

Hazardous Components:			
Description:	CAS#	EINECS No.	Approximate % of total weight
Lead	7439-92-1	231-106-7	<0.004Wt%
Mercury	7439-97-6	231-106-7	<0.0001Wt%
Cadmium	7440-43-9	231-152-8	<0.002Wt%
Manganese Dioxide	1313-13-9	215-202-6	~40Wt%
Zinc Metal	7440-66-6	231-175-3	~16Wt%
Potassium hydroxide	1310-58-3	215-181-3	~18Wt%

Section III - Physical / Chemical Characteristics

Boiling Point N.A.	Specific Gravity (H ₂ O=1) 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 Cylindrical Shape, odorless	

Section IV –Hazard Classification

Classification N.A.

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid)

Hazardous Decomposition or Byproducts

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

GP Batteries

Material Safety Data Sheet for GP Cylindrical Alkaline Battery

Document Number: MAA100

Revision:08

Page 2 of 4

Section VI - Health Hazard Data

Route(s) of	Inhalation?	Skin?	Ingestion?
Entry	N.A.	N.A.	N.A.

Health Hazard (Acute and Chronic) / Toxicological information

In case of electrolyte leakage, skin will be itchy when contaminated with electrolyte.

In contact with electrolyte can cause severe irritation and chemical burns.

Inhalation of electrolyte vapors may cause irritation of the upper respiratory tract and lungs.

Section VII – First Aid Measures

First Aid Procedures

If electrolyte leakage occurs and makes contact with skin, wash with plenty of water immediately.

If electrolyte comes into contact with eyes, wash with copious amounts of water for fifteen (15) minutes, and contact a physician.

If electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops. Ventilate the contaminated area.

Section VIII - Fire and Explosion Hazard Data

Flash Point (Method Used)	Ignition Temp.	Flammable Limits	LEL	UEL
N.A.	N.A.	N.A.	N.A.	N.A.

Extinguishing Media

Carbon Dioxide, Dry Chemical or Foam extinguishers

Special Fire Fighting Procedures

N.A.

Unusual Fire and Explosion Hazards

Do not dispose of battery in fire - may explode.

Do not short-circuit battery - may cause burns.

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 breathe cell vapors or touch internal material with bare hands.

Keep batteries between -30°C and 35°C for prolong storage.

GP Batteries

Material Safety Data Sheet for GP Cylindrical Alkaline Battery

Document Number: MAA100

Revision:08

Page 3 of 4

Section XI – Exposure Controls / Person Protection

Occupational Exposure Limits: LTEP		STEP
N.A.		N.A.
Respiratory Protection (Specify Type)		
N.A.		
Ventilation	Local Exhausts	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.
Protective Gloves		Eye Protection
	N.A.	N.A.
Other Protective Clothing or Equipment		
N.A.		
Work / Hygienic Practices		
N.A.		

Section XII – Ecological Information

N.A.

Section XIII – Disposal Method

Dispose of batteries according to government regulations.

Section XIV – Transportation Information

In general, all batteries in all forms of transportation (ground, air, or ocean) must be packaged in a safe and responsible manner. Regulatory concerns from all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in "strong outer packaging" that prevents spillage of contents. All original packaging for GP alkaline batteries has been designed to be compliant with these regulatory concerns. Alkaline batteries (sometimes referred to as "Dry cell" batteries) are not listed as dangerous goods under the IATA Dangerous Goods Regulations, ICAO Technical Instructions and the U.S. hazardous materials regulations (49 CFR). These batteries are not subject to the dangerous goods regulations provided they meet the requirements contained in the following special provisions.

Regulatory Body	Special Provisions
ADR	295 - 304, 598
IMDG	UN 3028 Provisions 295 - 304
UN	UN 3028 Provisions 295 - 304
US DOT	49 CFR 172.102 Provision 130
IATA	A123
ICAO	UN 3028 Provisions 295 - 304

All GP alkaline batteries are packed in such a way to prevent short circuits or the generation dangerous quantities of heat and meet the special provisions listed above. In addition, the IATA Dangerous Goods Regulations and ICAO Technical Instructions require the words "not restricted" and the Special Provision number A123 be provided on the air waybill, when an air waybill is issued.

Non-dangerous goods.

Such battery have been packed in inner packaging in such a manner as to effectively prevent short circuit and movement that could lead to short circuit.

GP Batteries

Material Safety Data Sheet for GP Cylindrical Alkaline Battery

Document Number: MAA100

Revision:08

Page 4 of 4

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.
