

Document Number: SDS100 Revision: 04 Date of prepared: 17 Sep 2019

Section I – Product and Company Identification				
Information of Product				
Product Identity (used on the label) Cylindrica	Cylindrical Alkaline Battery			
Information of Manufacturer				
Manufacturer's Name	Emergency Telephone Number			
GPI International Ltd.	Within USA & Canada call: +1-800-424-9300			
	Outside USA and Canada call: +1-703-527-3887			
Address (Number, Street, City State, and ZIP Code	e) Telephone Number for Information			
7/F, Building 16W, 16 Science Park West Avenue	+852-24843333			
Hong Kong Science Park, New Territories, Hong Ko	ong			
	Date of prepared and revised			
	17 September, 2019			
Recommended use of chemicals:				

N.A.

#### Section II – Hazards Identification

#### **Hazards identifications**

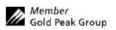
General advice: The common known rules for handling of chemicals should be obeyed. These chemicals are contained in a sealed steel can. For consumer use, adequate hazard warnings are printed on both the package and the battery. Potential for exposure should not exist unless the battery leaks, is exposed to high temperatures or is mechanically or electrically abused. Concentrated potassium hydroxide contained is caustic. Anticipated potential leakage of potassium hydroxide is 2-20 ml, depending on battery size. Do not eat and drink batteries. Keep batteries away from small children.

**Physical-Chemical Hazards:** This preparation is not classified as dangerous according to the criteria of directive 99/45/EEC.

**Hazards to man:** If battery leaking, exposure to caustic ingredients may occur. Therefore, may cause sensitization by skin contract.

Hazards to environment: N.A.

Remark: "N.A." is indicated if not applicable.





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## Section III - Composition/Information on Ingredients

Chemical Nature: Alkaline zinc-manganese dioxide batteries

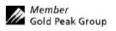
Ingredient	CAS No.	%/wt
Manganese Dioxide (MnO2)	1313-13-9	40.6 ~ 42.6
Zinc (Zn)	7440-66-6	14.8 ~ 17.4
Water (H2O)	7732-18-5	11.0 ~ 12.2
Potassium Hydroxide (KOH)	1310-58-3	4.8 ~ 7.0
Graphite	7782-42-5	1.7 ~ 3.4
Brass	12597-71-6	0.8 ~ 3.0
Steel	12597-69-2	15.7 ~ 20.4
Ni-plating	7440-02-0	0.2 ~ 0.3
Nylon-66	32131-17-2	1.4 ~ 1.6
Polyvinyl Alcohol Fiber (PVA)	9002-89-5	0.6 ~ 0.9
Mercury (Hg)	7439-97-6	<0.0001
Lead (Pb)	7439-92-1	<0.0030
Cadmium (Cd)	7440-43-9	<0.0003
Arsenic (As)	7440-38-2	<0.0001

### **Section IV – First-aid Measures**

**Inhalation:** In case of excessive inhalation due to leaking batteries remove to fresh air. Obtain medical advice. **Skin Contact:** If exposed to a leaking battery, remove contaminated clothing. Wash exposed areas with plenty of water and soap. If irritation occurs, consult a physician.

**Eye contact:** If a battery is leaking and materials contact eyes, flush immediately with running water for at least 15 minutes. Consult an ophthalmologist at once.

**Ingestion:** Not anticipated due to size of batteries. Choking may occur with the smaller size batteries. If exposed to a Remark: "N.A." is indicated if not applicable.





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leaking battery, rinse mouth and surrounding areas with running water for at least 15 minutes. Give plenty of water to drink. Do not induce vomiting. Obtain medical advice.

## Section V - Fire-fighting Measures

Suitable extinguishing media: Carbon dioxide (CO2), foam, dry chemical powder.

Extinguishing media not to be used: Never use a direct water jet.

**Exposure hazards from combustion products:** In case of fire, carbon dioxide, carbon monoxide and other toxic organic substances will be generated. Do not inhale fumes and smoke.

Personal protective equipments: Wear full protective clothing. Use self-contained breathing apparatus.

#### Section VI – Accidental Release Measures

**Personal precautions:** Notify safety personnel of large spills. Caustic potassium hydroxide may be released from leaking or ruptured batteries. Avoid eye or skin contact and inhalation of vapours. Increase the ventilation. Wear protective clothing. Keep unprotected persons away.

**Environmental precautions:** Avoid discharge and penetration into sewerage systems, waterways, pits, and cellars. **Methods for cleaning up:** Collect spilled material with an insert standard absorbent like sand or silica. Care for well-ventilated conditions. Recycle or dispose of the materials in an appropriate way.

#### Section VII – Handling and Storage

#### **General handling:**

Obey the common known rules and precautions for handling with chemicals. Avoid mechanical and electrical abuse. Do not short battery or install incorrectly. Batteries may explode, pyrolize or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batteries according to equipment instructions. Do not mix battery systems, such as alkaline and zinc- carbon. Replace all batteries in equipment at the same time. Do not carry batteries loose in pocket or bag. Do not remove battery labels.

#### Storage:

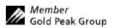
Store product in well-filled, appropriate coated and tightly closed containers avoiding influence of oxygen/air, light and humidity. Storage at room temperature.

#### Section VIII – Exposure Controls/Personal Protection

**Exposition/Technical measures:** Atmospheric vapour concentrations must be minimized by adequate ventilation. **Protection of hands, eyes and skin:** None required under normal use conditions. When handling leaking batteries, use neoprene, rubber or nitrile gloves and wear safety glasses to protect hands, eyes and skin.

General safety and hygiene measures: Use only as directed.

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### Section IX - Physical and Chemical Properties

Physical state: Stainless steel top battery Colour: Contents dark and gray in colour

Odour: N.A.

Melting point: N.A. Boiling point: N.A. Flash point: N.A.

Explosion limit: Not available

Ignition temperature: Not available Vapour pressure: Not available

Specific gravity: N.A. Solubility in water: N.A.

Solubility in other solvents: N.A.

PH value: Not available

Partition coefficient: Not available

Viscosity: Not available

### Section X – Stability and Reactivity

Thermal decomposition: Batteries may burst and release hazardous decomposition products when exposed to fire. Substances to avoid: Strong oxidation agents.

Hazardous reactions: Contents incompatible with strong oxidizing agents.

Hazardous decomposition products: Thermal degradation may produce hazardous fumes of zinc and manganese; hydrogen gas; caustic vapors of potassium hydroxide and other toxic by-products.

### **Section XI – Toxicological Information**

Toxicity information is available on the battery ingredients noted in Section III, but in general, N.A. to intact batteries Chronic health effects: N.A.

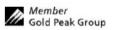
### Section XII - Ecological Information

Not available.

#### **Section XIII – Disposal Considerations**

**Product:** Dispose in accordance with appropriate regulations. If in doubt, contact your local government office concerned for information. Do not incinerate, since batteries may explode at excessive temperatures.

Remark: "N.A." is indicated if not applicable.





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## Section XIV – Transport Information

Road (ADR/RID): Not regulated

Air (ICAO/IATA):

IATA DGR : Special Provision A123: "Examples of such batteries are: alkali-manganese, zinc-carbon, nickel-metal hydride and nickel-cadmium batteries. Any electrical battery ... having the potential of a dangerous evolution of heat must be prepared for transport as to prevent (a) a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals...) is forbidden from transport; and (b) accidental activation. The words "Not Restricted" and the Special Provision number must be included in the description of the substance on the Air Waybill as required by 8.2.6, when an Air Waybill is issued."

#### Sea (IMDG):

IMDG CODE: 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 provisions of this Code provided the batteries are securely packed and protected against short-circuits. Examples of such batteries are: alkaline-manganese, zinc-carbon, nickel metal hydride and nickel-cadmium batteries"

These batteries are not regulated by international agencies as hazardous materials or dangerous goods when shipped. A shipping name of "Alkaline Batteries – Non-hazardous" may be used on all domestic and international bills of lading.

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.

#### Section XV – Regulatory Information

Symbol: N.A.

EC labeling: None

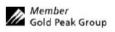
Risk phrases: None

Safety phrases: None

Labeling is not required because cylindrical alkaline batteries are classified as " articles " under the Dangerous

Preparations Directive and as such are exempt from the requirements of the Directive.

Remark: "N.A." is indicated if not applicable.



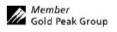


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#### Section XVI - Other Information

The information on this Safety Date Sheet (SDS) was obtained form current and reputable sources. However, the data is provided without any warranty; expressed or implied, regarding its correctness or accuracy. It is the user's responsibility to assume liability on loss, injury, damage, or expense resulting from improper use of this product. Any previous MSDS of this product mentioned above are hereby replaced with this new document. We urge you to make this information available as appropriate in your organization and to any others with whom you arrange to handle this product.

Remark: "N.A." is indicated if not applicable.





This Article Information Sheet (AIS) provides relevant battery information to retailers, consumers, OEMs and others users requesting a GHS-compliant SDS. Articles, such as batteries, are exempt from GHS SDS classification criteria. The GHS criteria is not designed or intended to be used to classify the physical, health and environmental hazards of an article. Branded consumer batteries are defined as electro-technical devices. The design, safety, manufacture, and qualification of branded consumer batteries follow ANSI and IEC battery standards. This document is based on principles set forth in the following hazard communication approaches: ANSI Z-400.1, GHS, JAMP AIS, and IEC 62474.

1. Document Information				
Document Name	Duracell Alkaline Batt	eries (Maior and Specialty	Cells)	
Document ID	Duracell Alkaline Batteries (Major and Specialty Cells)  AIS-ALK			
Issue Date	1-May-15			
Version	1			
Preparer	Global Product Stewardship			
Last Revision	New			
Information Contact	moquet.l@pg.com			
2. Company Information	по чисте рассии			
Name & Address	P&G Duracell Global F	Business Unit, 14 Research I	Orive Rethel CTIISA	06801
Telephone	(203) 796- 4430	rasiness onit, 14 Nescaren i	onve, bether, er oor	00001
Website	www.duracell. com			
Consumer Relations		-551-2355 (9:00 AM - 5:00 l	PM FST)	
3. Article Information	Troitin function 2 000	331 2333 (3.00 / IIVI 3.00 /		
Description	Duracell branded cons	sumor alkalino hattory		
Product Category	Electro-technical device	·		
Use		e for electronic devices		
Global sub-brands (Retail)		ntum, Simply, Turbo, Ultra,	Racic TurboMay	
Global sub-brands (B2B)	Procell, Industrial, OEI		basic, Turbolviax	
Sizes	Major Cells: AA,AAA,			
Sizes		MN11. MN21, MN27, MN1	75 PX76 (LR44) PX2	8 PX625 (LR09)
Sizes	LR43, LR54, N, J, 4.5V,		173, 1 X70 (LIX+4), 1 X2	.o, 1 X023, (ER03),
Sizes	Lanterns: MN903, MN	N908, MN915, MN918; MN	1203	
Principles of Operation	A battery powers a device by converting stored chemical energy into electrical energy.			
Representative Product Images	DURACELL	Onbycer Consultation	DURACELL	
	Maior Cells	Maior Cells	Lantern	Specialty
4. Article Construction				
Applicable Battery Industry	ANSI C18.1M Part 1, A	NSI C18.1M Part 2, ANSI C	18.4, IEC 60086,1, IEC	60086-2, IEC
Standards	60086-5	,	, , ,	,
Electro-technical System	Alkaline Manganese Dioxide			
Electrode - Negative	Zinc (CAS # 7440-66-6)			
Electrode - Positive	Manganese Dioxide (CAS # 1313-13-9)			
Electrolyte	Alkali Metal Hydroxide (eAs # 1313-13-3)			
Materials of Construction - Can	Nickel Plated Steel			
Declarable Substances	None			
(IEC 62474 Criteria 1)				
Mercury Free Battery	Yes			
ivicious i iee Dattely	163			
(ANCI C19 AM /Enam)				
(ANSI C18.4M <5ppm) Small Cell or Battery	Sizes: AAA and Special	Ity Cells fit inside a specially	designed test cylind	er 2.25 inches
Small Cell or Battery		ty Cells fit inside a specially	designed test cylind	er 2.25 inches
		ty Cells fit inside a specially inches (31.70 mm) wide.	designed test cylind	er 2.25 inches



Ingestion/Small Parts Warning	Required for Small Cell or Battery (Sizes: AAA and Specialty Cells): Keep away from
	children. If swallowed, consult a physician immediately.
Normal Conditions of Use	Exposure to contents inside the sealed battery will not occur unless the battery leaks, is exposed to high temperatures, or is mechanically abused.
Note to Physician	A damaged battery will release concentrated and caustic potassium hydroxide.
First Aid - If swallowed	Do not induce vomiting. Seek medical attention immediately. USA CALLS ONLY - CALL 24 HOUR NATIONAL BATTERY INGESTION HOTLINE: (202) 625-3333 - COLLECT.
First Aid - Eye Contact	Flush with water for at least 15 minutes. Seek medical care if irritation persists.
First Aid - Skin Contact	Remove contaminated clothing. Wash skin with soap and water. Seek medical care if irritation persists.
First Aid - Inhalation	Remove to fresh air.
Battery Safety Standards & Testing	Duracell batteries meet the requirements of ANSI C18. 1M Part 2 and IEC 60086-5. These standards specify tests and requirements for alkaline batteries to ensure safe operation under normal use and reasonably foreseeable misuse. The test regimes assess three conditions of safety. These are:  1-Intended use simulation: Partial use, vibration, thermal shock, and mechanical shock 2-Reasonably foreseeable misuse: Incorrect installation, external short-circuit, free fall (user-drop), over-discharge, and crush 3-Design consideration: Thermal abuse, mold stress
Precautionary Statements	<b>CAUTION:</b> Batteries may explode or leak, and cause burn injury, if recharged, disposed of in fire, mixed with a different battery type, inserted backwards or disassembled. Replace all used batteries at the same time. Do not carry batteries loose in your pocket or purse. Do not remove the battery label. Keep small batteries (i.e., AAA) away from children. If swallowed, consult a physician at once.
6. Fire Hazard & Firefighting	
Fire Hazard	Batteries may rupture or leak if involved in a fire.
Extinguishing Media	Use any extinguishing media appropriate for the surrounding area.
Fires Involving Large Quantities of Batteries	Large quantities of batteries involved in a fire will rupture and release caustic potassium hydroxide. Firefighters should wear self-contained breathing apparatus and protective clothing.
7. Handling & Storage	
Handling Precautions	Avoid mechanical and electrical abuse. Do not short circuit or install incorrectly.  Batteries may rupture or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batteries in accordance with equipment instructions.
Storage Precautions	Store batteries in a dry place at normal room temperature. Refrigeration does not make them last longer.
Spills of Large Quantities of Loose Batteries (unpackaged)	Notify spill personnel of large spills. Irritating and flammable vapors may be released from leaking or ruptured batteries. Spread batteries apart to stop shorting. Eliminate all ignition sources. Evacuate area and allow vapors to dissipate. Clean-up personnel should wear appropriate PPE to avoid eye and skin contact and inhalation of vapors or fumes. Increase ventilation. Carefully collect batteries and place in appropriate container for disposal. Remove any spilled liquid with absorbent material and contain for disposal.
8. Disposal Considerations (GHS Sec	tion 13)
Collection & Proper Disposal	Dispose of used (or excess) batteries in compliance with federal, state/provincial and local regulations. Do not accumulate large quantities of used batteries for disposal as accumulations could cause batteries to short-circuit. Do not incinerate. In countries, such as Canada and the EU, where there are regulations for the collection and recycling of batteries, consumers should dispose of their used batteries into the collection network at municipal depots and retailers. They should not dispose of batteries with household trash.



LICA EDA DCDA (40 CED 261)	
USA EPA RCRA (40 CFR 261)	Classified as non-hazardous waste (not ignitable, corrosive, reactive or toxic). Federal Universal Waste Regulations (40 CFR 273) do not apply. State requirements may be more stringent than Federal.
California Universal Waste Rule (Cal. Code Regs. Title 22, Div. 4.5, Ch. 23)	California prohibits disposal of batteries as trash (including household trash).
9. Transport Information (GHS Section	14)
Regulatory Status	Not regulated. Alkaline batteries (sometimes referred to as "Dry Cell" or "household" batteries) are not listed or regulated as dangerous goods under IATA Dangerous Goods Regulations, ICAO Technical Instructions, IMDG Code, UN Model Regulations, U.S. Hazardous Materials Regulations (49 CFR), and UNECE ADR.
UN Identification Number/ Shipping Name	None - Not Required
Special Provision (SP) Conformance	Special regulatory provisions require batteries to be packaged in a manner that prevents the generation of a dangerous quantity of heat and short circuits. Shippers can prepare batteries by taping the terminals, individually packaging batteries, or otherwise segregating the batteries to prevent risk of creating a short circuit. Batteries shipped in original unopened Duracell packaging is compliant.
US DOT SP	49 CFR 172.102 Special Provision 130
Air Transport (IATA/ICAO) SP	Special Provision A123 (56th Edition - 2015). NOTE: The words "NOT RESTRICTED" and "SPECIAL PROVISION A123" must be included on the description of the substance on the Air Waybill, when air way-bill is issued.
Passenger Air Travel	No restrictions
Emergency Transportation Hotline	CHEMTREC 24-Hour Emergency Response Hotline Within the United States call +703-527-3887 Outside the United States, call +1 703-527-3887 (Collect)
10. Regulatory Information (GHS Sect	ion 15)
40 0 0	
10a. Battery Requirements	
USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996	During the manufacturing process, no mercury is added.
USA EPA Mercury Containing & Rechargeable Battery Management	During the manufacturing process, no mercury is added.  Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium
USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996	
USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996 EU Battery Directive 2006/66/EC & amendment 2013/56/EU  10b. General Requirements	Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium (<0.0020%)I and lead (<0.0040%). Global labels are marked with the special collection symbol and the EU qualifier in accordance with EU Battery Directive 2006/66/EC, Article 11. Paragraph 1 on batteries and accumulators and waste batteries and accumulators
USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996 EU Battery Directive 2006/66/EC & amendment 2013/56/EU	Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium (<0.0020%)I and lead (<0.0040%). Global labels are marked with the special collection symbol and the EU qualifier in accordance with EU Battery Directive 2006/66/EC, Article
USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996 EU Battery Directive 2006/66/EC & amendment 2013/56/EU  10b. General Requirements USA CPSIA 2008 (PL. 11900314) USA CPSC FHSA (16 CFR 1500)	Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium (<0.0020%)I and lead (<0.0040%). Global labels are marked with the special collection symbol and the EU qualifier in accordance with EU Battery Directive 2006/66/EC, Article 11. Paragraph 1 on batteries and accumulators and waste batteries and accumulators  Exempt  Consumer batteries are not listed as a hazardous product.
USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996 EU Battery Directive 2006/66/EC & amendment 2013/56/EU  10b. General Requirements USA CPSIA 2008 (PL. 11900314) USA CPSC FHSA (16 CFR 1500) USA EPA TSCA Section 13 (40 CFR 707.20)	Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium (<0.0020%)I and lead (<0.0040%). Global labels are marked with the special collection symbol and the EU qualifier in accordance with EU Battery Directive 2006/66/EC, Article 11. Paragraph 1 on batteries and accumulators and waste batteries and accumulators  Exempt  Consumer batteries are not listed as a hazardous product.  For customs clearance purpose, batteries are defined as an "Article".
USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996 EU Battery Directive 2006/66/EC & amendment 2013/56/EU  10b. General Requirements USA CPSIA 2008 (PL. 11900314) USA CPSC FHSA (16 CFR 1500) USA EPA TSCA Section 13 (40 CFR	Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium (<0.0020%)I and lead (<0.0040%). Global labels are marked with the special collection symbol and the EU qualifier in accordance with EU Battery Directive 2006/66/EC, Article 11. Paragraph 1 on batteries and accumulators and waste batteries and accumulators  Exempt  Consumer batteries are not listed as a hazardous product.
USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996 EU Battery Directive 2006/66/EC & amendment 2013/56/EU  10b. General Requirements USA CPSIA 2008 (PL. 11900314) USA CPSC FHSA (16 CFR 1500) USA EPA TSCA Section 13 (40 CFR 707.20)	Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium (<0.0020%)  and lead (<0.0040%). Global labels are marked with the special collection symbol and the EU qualifier in accordance with EU Battery Directive 2006/66/EC, Article 11. Paragraph 1 on batteries and accumulators and waste batteries and accumulators  Exempt  Consumer batteries are not listed as a hazardous product.  For customs clearance purpose, batteries are defined as an "Article".  Classified as non-hazardous waste (not ignitable, corrosive, reactive or toxic). Federal Universal Waste Regulations (40 CFR 273) do not apply. State requirements may be
USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996 EU Battery Directive 2006/66/EC & amendment 2013/56/EU  10b. General Requirements USA CPSIA 2008 (PL. 11900314) USA CPSC FHSA (16 CFR 1500) USA EPA TSCA Section 13 (40 CFR 707.20) USA EPA RCRA (40 CFR 261)	Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium (<0.0020%)I and lead (<0.0040%). Global labels are marked with the special collection symbol and the EU qualifier in accordance with EU Battery Directive 2006/66/EC, Article 11. Paragraph 1 on batteries and accumulators and waste batteries and accumulators  Exempt  Consumer batteries are not listed as a hazardous product.  For customs clearance purpose, batteries are defined as an "Article".  Classified as non-hazardous waste (not ignitable, corrosive, reactive or toxic). Federal Universal Waste Regulations (40 CFR 273) do not apply. State requirements may be more stringent than Federal.
USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996 EU Battery Directive 2006/66/EC & amendment 2013/56/EU  10b. General Requirements USA CPSIA 2008 (PL. 11900314) USA CPSC FHSA (16 CFR 1500) USA EPA TSCA Section 13 (40 CFR 707.20) USA EPA RCRA (40 CFR 261)  California Prop 65 CANADA Products Containing	Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium (<0.0020%)  and lead (<0.0040%). Global labels are marked with the special collection symbol and the EU qualifier in accordance with EU Battery Directive 2006/66/EC, Article 11. Paragraph 1 on batteries and accumulators and waste batteries and accumulators  Exempt  Consumer batteries are not listed as a hazardous product.  For customs clearance purpose, batteries are defined as an "Article".  Classified as non-hazardous waste (not ignitable, corrosive, reactive or toxic). Federal Universal Waste Regulations (40 CFR 273) do not apply. State requirements may be more stringent than Federal.  No warning required per 3rd party assessment.



10c. Regulatory Definitions - Articles	
USA OSHA	29 CFR 1910.1200(b)(6)(v)
USA TSCA	40 CFR 704.3; 710.2(3)( c); and [19 CFR 12.1209a)]
EU REACH	Title 1 - Chapter 2 - Article 3(3)
GHS	Section 1.3.2.1
11. Other Information	
11a. Certification & 3rd Party Approva	als
UL (UTGT2.S50939 Single Multiple	AA, 9V
Station Smoke Alarms - Component)	Certification Standard: ANSI/UL 217 Single & Multiple Station Smoke Alarms
11b. AIS Hazard Communication Appr	oaches (consulted in developing this document):
Globally Harmonized System (GHS)	GHS SDS requirements and classification criteria do not apply to articles or products (such as batteries) that have a fixed shape, which are not intended to release a chemical. The article exemption is found in Section 1.3.2.1.1 of the GHS and reads: <i>The GHS applies to pure substances and their dilute solutions and to mixtures. "Articles" as defined by the Hazard Communication Standard (29 CFR 1900.1200) of the OSHA of the USA, or by similar definition, are outside the scope of the system."</i>
Joint Article Management Promotion Consortium JAMP	JAMP is a Japanese Industry Association who developed the concept of an Article Information Sheet as a supply chain tool to share and communicate chemical information in articles. The AIS authoring process is based on "declarable" substances to meet global regulatory requirements as well as substances to be reported by GADSL, JIG, etc.
IEC 62474 Ed. 1.0 B:2012 Material Declaration for Products of and for the Electro-technical Industry	An international standard that came into effect in March 2012 concerning declaration for electrical and electronic products. IEC 6274 replaces the defunct Joint Industry Guide – Material Declaration for Electro-technical Products (JIG-101-Ed 4.1 (May 21, 2012)
Environmental Standardization for	The general principle for a substance to be included in the database as a declarable substance is: 1) existing national laws or regulations in an IEC member country that are relevant to Electro-technical products and that prohibit or restrict substances, or that have a labeling, communication, reporting or notification requirement, and 2) applying IEC 62474 criteria results in identification of declarable substance.
ANSI Z 400.1/Z19.1 (2010)	2.1 Scope: Applies to preparation of SDSs for hazardous chemicals used under occupational conditions. Does not address how the standard may be applied to articles. It presents basic information on how to develop and write a SDS. Additional information is provided to help comply with state and federal environmental and safety laws and regulations. Elements of the standard may be acceptable for International use.
DISCLAIMER: This AIS is intended to provide a brief summary of our knowledge and guidance regarding the use of this	

DISCLAIMER: This AIS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations. This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumes no responsibility for injury to the recipient or third persons or for any damage to any property resulting from misuse of the product.