Safety Data Sheet
29 CFR 1910.1200

Effective Date ： 01/01-2025

Trade Name ： Zinc Chloride Dry Battery (No Lead Added)

1 Identification

- **Product identifier**
- **Trade name : Zinc Chloride Dry Battery (No Lead Added)**
- **Item No.:**
  SUM1/EXTRA、SUM1/SUPER、SUM2/EXTRA、SUM2/SUPER、SUM3/EXTRA、SUM3/SUPER、SUM4/EXTRA、SUM4/SUPER、SUM5/EXTRA、SUM9V/EXTRA、SUM9V/SUPER
- **Recommended use of the chemical and restrictions on use :**
- **Application of the substance / the preparation :** Electronic products
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier :**
  CHUNG PAK BATTERY WORKS LIMITED
  CHUNG PAK (GUANG DONG) BATTERY INDUSTRIAL CO., LTD
- **Full address :**
  UNIT B, 2/F., WAH SHUN INDUSTRIAL BUILDING, No.4 CHO YUEN STREET, YAU TONG BAY, KOWLOON, HONGKONG
  GANCUN SECTION FOCHEN ROAD CHEN CUN COUNTY SHUNDE DISTRICT FOSHAN CITY GUANGDONG PROVINCE CHINA
  Phone number :
  852-27171338
  Fax : 852 2772 7727
- **Email :** vinnic@chungpak.com
- **Other US contact point :** No available
- **Further information obtainable from :**
  CHUNG PAK BATTERY WORKS LIMITED
  CHUNG PAK (GUANG DONG) BATTERY INDUSTRIAL CO., LTD
- **Emergency telephone number :**
  USA Poison Center Tel: +1 800 222 1222
  +86-757-23312338 Bobo
- **Remark :**
  *This sample is likely to be classified as article and is out of scope of a SDS as set out in 29 CFR Part 1910.1200. This SDS is generated for client's reference only.

2 Hazard(s) identification

- **Classification of the substance or mixture**
  Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS05 Corrosion

Skin Corr.	1A	H314	Causes severe skin burns and eye damage.
Eye Dam.	1	H318	Causes serious eye damage.

GHS07

Acute Tox.	4	H302	Harmful if swallowed.
Acute Tox.	4	H332	Harmful if inhaled.

- **Information concerning particular hazards for human and environment :**
  The product has to be labeled due to the calculation procedure of OSHA Hazard Communication Standard (29 CFR 1910.1200).
- **Classification system :**
  The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.

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(Contd. on page 1)

- **Label elements**
- **Labeling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**
- **Hazard pictograms**

GHS05 GHS07

- **Signal word :** Danger
- **Hazard-determining components of labeling :**
manganese dioxide
- **Hazard statements**

H302+H332	Harmful if swallowed or if inhaled.
H314	Causes severe skin burns and eye damage.

- **Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe dusts or mists.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local / regional / national / international regulations.

- **Hazards not otherwise classified (HNOC)** No further relevant information available.

3 Composition / information on ingredients

- **Chemical characterization: Mixtures**
- **Description:**
Mixture of the substances listed below with nonhazardous additions.
For the wording of listed risk phrases refer to section 16.

- **Composition:**

1313-13-9	manganese dioxide Acute Tox.4, H302; Acute Tox. 4, H332	22.8-25.7%
7439-89-6	iron	17.4-23.8%
7440-66-6	zinc	16.8-19.3%
7732-18-5	water	14.1-16.2%
1333-86-4	carbon black	11.1-15.5%
7646-85-7	zinc chloride	5.3-5.8%
12125-02-9	ammonium chloride	0.02-0.25%
9004-34-6	Cellulose	0.6-0.74%
9002-88-4	PE	0.97-1.26%
9003-07-0	PP	0.14-0.17%
9002-86-2	PVC	0.77-1.28%

(Contd. on page 3)

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• **Remark：**
zinc (CAS: 7440-66-6)
Note: Zn

manganese dioxide (CAS: 1313-13-9)
Note: MnO_2

carbon black (CAS: 1333-86-4)
Note: C

iron (CAS: 7439-89-6)
Note: Fe

zinc chloride (CAS: 7646-85-7)
Note: $ZnCl_2$

ammonium chloride (CAS: 12125-02-9)
Note: NH_4Cl_2

water (CAS: 7732-18-5)
Note: H_2O

Cellulose (CAS: 9004-34-6)
Note: Paper

Polyethylene (CAS: 9002-88-4)
Note: PE

Polypropylene(CAS: 9003-07-0)
Note: PP

Polyvinyl chloride (CAS: 9002-86-2)
Note: PVC

4 First-aid measures

• **Description of first aid measures**
• **General description:**
Immediately remove any clothing soiled by the product。
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
• **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
• **After skin contact:** Immediately wash with water and soap and rinse thoroughly. Then consult a doctor.
• **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
• **After swallowing:**
Do not induce vomiting; immediately call for medical help.
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
• **Most important symptoms and effects, both acute and delayed** No further relevant information available.
• **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

• **Suitable extinguishing agents:**
CO_2、extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
• **Special hazards arising from the substance or mixture:** No further relevant information available.

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- **Special protective equipment and precautions for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
  Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**
  Use neutralizing agent.
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.

7 Handling and storage

- **Precautions for safe handling:**
  Thorough dedusting.
  Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage：**
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

8 Exposure controls / personal protection

- **Components with limit values that require monitoring at the workplace:**

1313-13-9 manganese dioxide (22.8-25.7%)	
PEL (USA)	Ceiling limit value: 5mg/m^3 as Mn
REL (USA)	Short-term value: 3mg/m^3 Long-term value: 1mg/m^3 as Mn
TLV (USA)	Long-term value: 0.02*0.1* mg/m^3 as Mn； * respirable **inhalable fraction
9004-34-6 Cellulose (0.6-0.74%)	
PEL (USA)	Long-term value: 15* 5** mg/m^3 *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m^3 *total dust **respirable fraction
TLV(USA)	Long-term value: 10mg/m^3

(Contd. on page 5)

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- **Additional information:** The lists that were valid during the creation were used as basis.
- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.**
- **Appropriate engineering controls:**
Wash clothing and shoes before reuse.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
See Section 7 for information about design of technical facilities.

- **Personal protective equipment:**
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands ：**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties

· General Information	
· Appearance:	
Form:	Cylindrical
Color:	Black，Red
· Odor:	Odorless
· Odour threshold:	Not available
· pH-value:	Not available
· Change in condition	
Melting point/ Melting range:	Not available
Freezing point：	Not available
Boiling point/ Boiling range:	Not available
· Flash point:	Not available

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· Flammability (solid, gaseous):	Not available
· Auto-Ignition temperature:	Not available
· Decomposition temperature:	Not available
· Explosion limits：	
Lower:	Not available
Upper:	Not available
· Vapor pressure:	Not available
· Density:	Not available
· Relative density:	Not available
· Vapour density:	Not available
· Evaporation rate:	Not available
· Solubility in/ Miscibility with	
Water:	Not available
· Partition coefficient (n-octanol/water)	Not available
· Viscosity:	
Dynamic:	Not available
Kinematic:	Not available
· Other information	Voltage 1.5V

10 Stability and reacivity

· **Reactivity:** Data not available
· **Chemical stability:** Stable under normal operating and storage conditions.
· **Possibility of hazardous reactions:** No dangerous reactions known.
· **Conditions to avoid:** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
7439-89-6 iron		
Oral	LD50	30000 mg/kg (rat)
9004-34-6 Cellulose		
Oral	LD50	＞5000 mg/kg (rat)

· **Primary irritant effect:**
· **on the skin:** Strong caustic effect on skin and mucous membranes.
· **on the eye:** Strong caustic effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Corrosive

(Contd. on page 7)

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Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

• **Carcinogenic categories**

• **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

• **NTP (National Toxicology Program)**
None of the ingredients is listed.

• **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

12 Ecological information

• **Toxicity**
• **Aquatic toxicity:** No further relevant information available.
• **Persistence and degradability:** No further relevant information available.
• **Bioaccumulative potential:** No further relevant information available.
• **Mobility in soil:** No further relevant information available.
• **Other adverse effects:** No further relevant information available.

13 Disposal considerations

• **Waste treatment methods**
• **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
• **Uncleaned packagings:**
• **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

• Zinc Chloride Dry Battery (No Lead Added) is exempt from dangerous goods. It is considered non-dangerous goods by the international Civil Aviation Organization (ICAO), the International Air Transport Association (IATA), International Martine Dangerous Goods regulations (IMDG), the 《Recommendations on the Transport of Dangerous Goods Model Regulations》 and also is not classified as dangerous goods under the 66th Edition of the IATA Dangerous Good Regulation 2025 Special Provision A123.
Separate batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport.
Transport Fashion: By air, by sea, by road.

15 Regulatory information

• **Safety, health and environmental regulations/legislation specific for the substance or mixture**
• **Sara**

• **Section 335 (extremely hazardous substances):**
None of the ingredients is listed.

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. Section 313 (specific toxic chemical listings):	
1313-13-9	manganese dioxide

. TSCA (Toxic Substances Control Act):	
1313-13-9	manganese dioxide
7439-89-6	iron
7732-18-5	water
9004-34-6	Cellulose

. Proposition 65

. Chemical known to cause cancer:
None of the ingredients is listed.

. Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

. Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

. Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

. Cancerogenity categories

. EPA (Environmental Protection Agency)		
1313-13-9	manganese dioxide	D
7440-66-6	zinc	II

. TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.

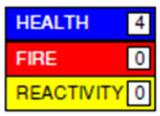
. NIOSH-Ca (National Institution for Occupational Safety & Health)
None of the ingredients is listed.

16 Other information

NFPA ratings (scale 0-4)

Health = 3
Fire = 0
Reactivity = 0

. HMIS ratings (scale 0-4)



Health = 4
Fire = 0
Reactivity = 0

(Contd. on page 9)

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- **Relevant phrases**
  H302 Harmful if swallowed.
  H314 Causes severe skin burns and eye damage.
  H332 Harmful if inhaled.
- **********
  The contents and format of this SDS are in accordance with 29 CFR 1910.1200 (g)

  DISCLAIMER OF LIABILITY
  The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in anyway connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

  Remark:
  *This sample is likely to be classified as article and is out of scope of a SDS as set out in 29 CFR Part 1910.1200. This SDS is generated for client's reference only.
- **Date of preparation/last revision** 2025.01.01/-
- **Abbreviations and acronyms:**
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  IATA: International Air Transport Association
  ACGIH: American Conference of Governmental Industrial Hygienists
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  Acute Tox. 4: Acute toxicity，Hazard Category 4
  Skin Corr. 1A: Skin corrosion/irritation，Hazard Category 1A
  Eye Dam . 1: Serious eye damage/eye irritation，Hazard Category 1
- **********

  End of document

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Article Information Sheet (AIS)

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 Batteries (Major and Specialty Cells)**
Document ID	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	
Name & Address	P&G Duracell Global Business Unit, 14 Research Drive, Bethel, CT USA 06801
Telephone	(203) 796- 4430
Website	www.duracell. com
Consumer Relations	North America: 1-800-551-2355 (9:00 AM - 5:00 PM EST)
3. Article Information	
Description	Duracell branded consumer alkaline battery
Product Category	Electro-technical device
Use	Portable power source for electronic devices
Global sub-brands (Retail)	Coppertop, Plus, Quantum, Simply, Turbo, Ultra, Basic, TurboMax
Global sub-brands (B2B)	Procell, Industrial, OEM/OEA
Sizes	Major Cells: AA,AAA, C, D & 9V
Sizes	Specialty Cells: AAAA, MN11. MN21, MN27, MN175, PX76 (LR44), PX28, PX625, (LR09), LR43, LR54, N, J, 4.5V, 625A
Sizes	Lanterns: MN903, MN908, MN915, MN918; MN1203
Principles of Operation	A battery powers a device by converting stored chemical energy into electrical energy.
Representative Product Images	   
	Major Cells **Major Cells** **Lantern** **Specialty**
4. Article Construction	
Applicable Battery Industry Standards	ANSI C18.1M Part 1, ANSI C18.1M Part 2, ANSI C18.4, IEC 60086,1, IEC 60086-2, IEC 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 (aqueous potassium hydroxide - CAS # 1310-58-3)
Materials of Construction - Can	Nickel Plated Steel
Declarable Substances (IEC 62474 Criteria 1)	None
Mercury Free Battery (ANSI C18.4M <5ppm)	Yes
Small Cell or Battery (ANSI C18.1M Part 2; IEC 60086-5)	Sizes: AAA and Specialty Cells fit inside a specially designed test cylinder 2.25 inches (57.1mm) long by 1.25 inches (31.70 mm) wide.
5. Health & Safety	

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Article Information Sheet (AIS)

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	**CAUTION:** 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 Section 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.

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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 Section 15)	
10a. Battery Requirements	
USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996	During the manufacturing process, no mercury is added.
EU Battery Directive 2006/66/EC & amendment 2013/56/EU	Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium (<0.0020%)l 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
10b. General Requirements	
USA CPSIA 2008 (PL. 11900314)	Exempt
USA CPSC FHSA (16 CFR 1500)	Consumer batteries are not listed as a hazardous product.
USA EPA TSCA Section 13 (40 CFR 707.20)	For customs clearance purpose, batteries are defined as an "Article".
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 Prop 65	No warning required per 3rd party assessment.
CANADA Products Containing Mercury Regulations SOR/20140254	Mercury free
EU REACH SVHC's (161 Substances) Candidate List December 2014)	No listed substances are present (>0.01% w/w)
EU REACH Article 31	SDS is not required consumer alkaline batteries.

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Article Information Sheet (AIS)

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 Approvals	
UL (UTGT2.S50939 Single Multiple Station Smoke Alarms - Component)	AA, 9V Certification Standard: ANSI/UL 217 Single & Multiple Station Smoke Alarms
11b. AIS Hazard Communication Approaches (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: ***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."***
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)
IEC 62474 Database - Publically available online (maintained by TC11: Environmental Standardization for electrical and electronic products and systems.	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.