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#### **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 - Manufacturer Information

Manufacturer's Name: New Leader Battery Limited

Emergency & Information Phone No: 852 - 2790 6280

Address: Rm A, 4/F, Block 1, Camelpaint Building, 62 Hoi Yuen Road, Kwun Tong, Kowloon, Hong Kong.

Signature of Prepare (Optional)

### SECTION II - Hazardous Ingredients / Identity Information

#### **IMPORTANT NOTE:**

Use under normal conditions, the lithium battery is hermetically sealed.

**Ingestion**: Swallowing a battery can be harmful. Contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract. *IMMEDIATELY SEE DOCTOR*;

**Inhalation**: Contents of an open battery can cause respiratory irritation.

**Skin Contact**: Contents of an open battery can cause skin irritation.

**Eye Contact**: Contents of an open battery can cause severe irritation.

Substance Name	Chemical Identification CAS#	% Weight
Zinc	7440 - 66 – 6	8%
Graphite	7782 - 42 – 5	3%
Manganese Dioxide	1313 - 13 - 9	30%
Potassium Hydroxide	1310 - 58 – 3	10%
Iron	7439 - 89 – 6	37%
Distilled Water	7732 – 18 - 5	11%
Others	N/A	Balance



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### SECTION III - Physical / Chemical Characteristics

Boiling Point: N.A.

Specific Gravity (H2O = 1): N.A.

Melting Point: N.A.

Vapor Pressure (mm Hg): N.A.

Vapor Density (AIR = 1): N.A.

Evaporation Rate (Buty1 Acetate): N.A.

Solubility in Water: N.A.

Appearance and Odor, Button Shape, Odorless

#### SECTION IV - Control Fire Measures

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.

### SECTION V - Reactivity Data

Stability:

Unstable Conditions to Avoid

Hazardous Decomposition or Byproducts

The Alkaline Button Battery do not meet any of the criteria established in 40 CFR 261.2 of reactivity

#### SECTION VII - First Aid Measures

Ingestion: Do not induce vomiting or give food or drink. Seek medical attention immediately. Call National Battery Ingestion Hotline for advice.

Inhalation: Provide fresh air and seek medical attention.

Skin Contact: Remove contaminated clothing and wash skin with soap and water. If a chemical burn occurs of if irritation persists, seek medical attention

Eye Contact: Immediately flush eyes thoroughly with water for at least 15 minutes, lifting upper and lower lids, until no evidence of the chemical remains. Seek medical attention.



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### SECTION VIII - Accidental Release or Spillage

To Cleanup leaking batteries:

Ventilation Requirements: Room ventilation may be required in areas where there are open or leaking batteries

Eye Protection: Wear safety glasses with side shields if handling an open or leaking battery

Gloves: Use neoprene or natural rubber gloves if handling an open or leaking battery.

Battery materials should be collected in a leak-proof container

### **SECTION IX** – Handling and Storage

Storage: Store in a cool, well ventilated area. Elevated temperatures can result in shortened battery life.

Mechanical Containment: If potting or sealing the battery in an airtight or watertight container is required, consult your New Leader Battery Limited representative for precautionary suggestions. Batteries normally evolve hydrogen which, when combined with oxygen from the air can produce a combustible or explosive mixture unless vented. If such a mixture is present, short circuits, high temperature, or static sparks can cause an ignition.

Do not obstruct safety release vents on batteries, Encapsulation(potting) of batteries will not allow cell venting and can cause high pressure rupture.

Handling: Accidental short circuit for a few seconds will not seriously affect the battery. Prolonged short circuit will cause the battery to lose energy, and can cause the safety release vent to open. Sources of short circuits include jumbled batteries in bulk containers, metal jewelry, metal covered tables or metal belts used for assembly of batteries into devices.

Charging: This battery is manufactured in a charged state. Its is not designed for recharging. Recharging can cause battery leakage or in some case, high pressure rupture. Inadvertent charging can occur if a battery is installed backwards

### SECTION X – Exposure Controls / Person Protection

Ventilation Requirements : N.A.

Respiratory Protection: N.A.

Eyes Protection: N.A.

Gloves: N.A.

# SECTION XI - Ecological Information : N.A.

**SECTION XIII** – **Regulatory Information:** Batteries are not classified as dangerous goods by US Department of Transportation or the major international regulatory bodies and are therefore not regulated. SARA/TITLE III – As an article, this battery and its contents are not subject to the requirements of the Emergency Planning and Community Right to Know Act.



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### **SECTION XIV** – Transport Information

The Batteries in all forms of transportation (e.g. Truck, air, or sea) must be packaged in a safe and responsible manner. Regulatory concerns form all agencies for safe packaging require that batteries be packaged in s manner that prevents short circuits and be contained in (Strong Carton / Packaging) that prevents spillage of contents.

Alkaline battery (sometime referred to as "<u>Dry Cell</u>" are not listed as dangerous goods under the **ADR** European Agreement Concerning the International Carriage of Dangerous Goods by Road, The IMDG International Maritime Dangerous Goods Code, UN Dangerous Good Regulations, IATA Dangerous Goods Regulations 55th Edition, 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 requirement contained in the following special provisions.

Regulatory Parties	Special Provisions	
ADR	Not Regulated	
IMDG	Not Regulated	
UN, ICAO	Not Regulated	
US DOT	49 CFR 172.102 Provision 130	
IATA,	A123,	

Ref: Summary of Packing Instruction (IATA Dangerous Goods Regulations 55th Edition) the minimum requirements necessary to transport as non-restricted goods are as follows

\*\*All 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 ICAO Technical Instructions require the words "Not Restricted" and the Special Provision No: A123 be provided on the air waybill, when an air waybill is issued.

**SECTION XV – Other Information:** None