# **ZeniPower**

**SAFETY DATA SHEET** (according to 2001/58/EC)

**Product: Hearing Aid Batteries** 

Date / released: 8/Jan./2020 Ref #: PSDS/ZABA/V9/2020

### 1. Identification of the substance/preparation and company

ZeniPower Zinc Air Button Cells: A675P; A675;A13; A312;A10 (1.45V)

<u>Company:</u> ZhuHai Zhi Li Battery CO., LTD. **Company: contact number:** 

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+86 756 2526620

7/F, Block 10, XiangZhou North Ind. Park, ZhuHai, China

# 2. Composition/information on ingredients

Chemical nature:	Wt. %	CAS No.	TWA/TLV
Zinc	30-40	7440-66-6	5.0 mg/m³ (ZnO as Fume)
Potassium Hydroxide	1-3	1310-58-3	Not Listed (for solution)
Manganese Dioxide	< 0.5	1313-13-9	0.2 mg/m³ (as Mn, TWA)
Carbon	1-3	1333-86-4	3.5 mg/m <sup>3</sup> Respirable (TWA)
Steel	30-40	7439-89-6	
SS*-Nickel plating	3-7	7440-02-0	1.0 mg/m <sup>3</sup> (Elemental, TWA)
SS-Copper plating	1-5	7440-50-8	1.0 mg/m <sup>3</sup> (TWA)
Water, paper, plastic, surfactant, Lead	Balance		

<sup>\*</sup>SS:Stainless Steel

#### 3. Hazards identification

Critical hazards to man: If battery leaking, exposure to caustic ingredients may occur.

Critical hazards to the environment: Not applicable

Other Information: Keep batteries away from small children.

#### 4. First aid measures

**General advice:** For consumer use, adequate h azard warnings are included on both the package and on the battery. Potential for exposure should not exist unless the battery leaks, is exposed to high temperatures, is accidentally swallowed or is mechanically, physically, or electrically abused. Contains concentrated (35%) potassium hydroxide, which is caustic. Anticipated potential leakage of potassium hydroxide is 0.01 to 0.2 ml, depending on battery size.

**If inhaled:** Not anticipated. Respiratory and eye irritation may occur if fumes are released due to heat or an abundance of leaking batteries. Remove to fresh air. Contact physician if irritation persists.

On skin contact: Irritation, including caustic burns/injury, may occur following exposure to a leaking battery.

Irrigate exposed skin with copious amounts of cl ear, tepid water for at least 15 minutes.

If irritation, injury or pain persists, consult a physician.

On contact with eyes: Irritation, including caustic burns/injury, may occur following exposure to a leaking battery. It battery is leaking and material contacts eyes, flush with copious amounts of clear, tepid water for 30 minutes. Contact physician at once.

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# 4. First aid measures (continued)

On ingestion: Consult a physician. Batteries lod ged in the esophagus should be re moved immediately since leakage, caustic burns and perforation can occur as soon as 4-6 hours after ingestion. Irritation, including caustic burns to the internal/external mouth areas, may occur following exposure to a leaking battery. An initial x-ra y should be obtained promptly to determine battery location. Published rep orts re commend removal fro m the esophagus be d one endoscopically (under direct visualization). Batteries beyond the esophag us need not be retrieved unless there are signs of injury to the GI tract or a large diameter battery fails to the pylorus. If asymptomatic, foll ow-up x-ra ys are necessary only to confirm by stool inspection is prefera ble under most passage of larger batteries. Confirmation circumstances. If mouth area irritati on/burning has occurred, rinse the mouth and surrounding area with clear, tepid water for at least 15 minutes. If irritation injury or pain persists, consult a physician.

Notes to Physician: 1) The primary acutely toxic ingredient is concentrated (35%) potassium hydroxide.

2) Anticipated potential leakage of potassi um hydroxide is 0.01 - 2.5 ml. dependin g on battery size.

## 5. Fire fighting measures

**Suitable extinguishing media:** As appropriate for adjacent fire.

Special protective equipment: In fires involving large quantities of product, use self-contained breathing

apparatus and full protective clothing.

Further information: Hazardous decomposition products may be produced. (Sec. 10).

#### 6. Accidental release measures

**Personal precautions:** Notify safety personnel of large sp ills. Caustic potassium hydroxide may be released fro m leaking o r ruptured b atteries. Avoid eye or skin contact and inhalation of vapo urs. Increase venti lation. Clean -up pe rsonnel should w ear appropriate protective gear.

Environmental precautions: Not applicable Methods for cleaning up: Not applicable

#### 7. Handling and storage

#### Handling

Avoid mechanical or electrical abuse. **DO NOT** short or install incorrectly. Batteries may exp lode. pyrolyze or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batteries in accordance with equipment instructions. Replace all batteries in equipment at the same time. Do not carry batteries loose in pocket or bag.

#### Storage

Store at room temperature.

#### 8. Exposure controls/personal protection

8-Hour TWAs: Manganese Dioxide (as Mn) - 5 mg/m<sup>3</sup> (U.K.), (Ceiling) (OSHA);

0.2 mg/m<sup>3</sup> (ACGIH/Duracell)

Potassium Hydroxide - 2 mg/m<sup>3</sup> (Ceiling) (ACGIH); 2 mg/m<sup>3</sup> (STEL) (U.K.)

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## 8. Exposur e controls/personal protection (continued)

These levels are not anticipated under normal consumer use conditions.

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#### Personal protective equipment

**Respiratory equipment:** None required under normal use conditions.

**Hand protection:** None required under normal use conditions. Use neoprene, rubber or latex gloves

when handling leaking batteries.

Eye protection: None required under normal use conditions. Wear safety glasses when handling

leaking batteries.

General safety and hygiene measures: Use only as directed.

## 9. Physical and chemical properties

Form and Colour: Button cell batteries. Contents dark in colour.

**Odour:** Not applicable

Change in physical state

**Melting point/melting range:** Not available **Boiling point/boiling range:** Not available

Flash point: Not applicable

Explosion limits: Not available

**Ignition temperature**: Not available

Vapour pressure: Not available Specific Gravity: Not available

% Volatiles: Not available

Solubility in water: Not applicable

Solubility in other solvents: Not applicable

**pH value:** Not applicable

Octanol/water partition coefficient (log POW): Not available

Viscosity: Not available

#### 10. Stability and reactivity

Thermal decomposition: Batteries may burst and release hazardous decomposition products when

exposed to a fire situation.

Substance(s) to avoid: Strong oxidisers

**Hazardous reactions:** Contents incompatible with strong oxidising agents.

Hazardous decomposition products: Thermal degradation may produce hazardous fumes of zinc

and manganese; hydrogen gas; caustic vapours of potassium hydroxide and other toxic by-products.

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## 11. Toxicological information

Toxicity information is a vailable on the battery ingredients noted in Section 2, but, generally not applicable to intact batteries as used by customers.

Chronic Health Effects: Not applicable to intact batteries.

## 12. Ecological information

None available regarding product.

# 13. Disposal considerations

**Product:** Dispose in accordance with appr opriate regul ations. If in doubt, contact your national

authorities for information. Do not incinerate, since batteries may explode at excessive

temperatures.

#### 14. Transport information

UN Number: None

IMO Classification: None ADR Classification: None IATA Classification: None IMDG Classification: None

The product is not classified as dangerous und er the current edition of the IATA/IMDG dange rous goods regulations and all appl icable carrier and go vernment regulations. They are complying with **Special Provisions A123 under the 61<sup>st</sup> e dition 2020 of the IATA Dangerous Goods Regulations** and are complying with **Special Provisions 304 under IMDG code** and all applicable carrier and govern mental regulations and can be transported as not restricted cargo. A shi pping name of 'Batteries Dry - Non-hazardous' may be used on all domestic and international bills of lading.

The product is safe for air / ocean transportation and not regulated by IATA DGR / IMDG"

#### 15. Regulatory information

EC Labeling: NoneRisk Phrases: NoneSafety Phrases: None

Labeling is not require d because batteries are classified as "articles" under the Dang erous Preparations Directive and as such are exempt from the requirements of the Directive.

**16. Other information:** Revised: according to 2001/58/EC

Prepared by: ZhuHai Z hi Li Battery CO.,LTD Phone Number: Date:

7/F, Block 10, XiangZhou North Industry Park,

ZhuHai, China

+86 756 2526620

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