



MATERIAL SAFETY DATA SHEET

Product name: Carbon Zinc Dry Battery
Model Number: Applies to item number DT6030
Date prepared: October 28, 2014

1. COMPANY IDENTIFICATION:

Manufacturer: Roscoe Medical Inc.
21973 Commerce Pkwy
Strongsville, OH. 44149

Department: Quality Department

Telephone Number: 800-633-4839

Fax Number: 650-697-3596

2. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components:

Mercury (Hg) – approximate % of total weight: <0.001 wt%

Cadmium (Cd) – approximate % of total weight: <0.001 wt%

Lead (Pb) – approximate % of total weight: <0.2 wt%

Health Hazard Information:

Inhalation: N/A

Skin: N/A

Ingestion: N/A

3. FIRST-AID MEASURES

First Aid Procedures:

- If electrolyte leakage occurs and makes contact with skin, wash with plenty of water immediately.
- If electrolyte comes in contact with eyes, wash with copious amounts of water for fifteen 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.

4. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/A

Ignition Temperature: N/A

Flammable Limits: N/A

LEL: N/A

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UEL: N/A

Extinguishing Media: N/A

Special Firefighting 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.

- 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.

5. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled:

- Batteries that are leaking should be handled with rubber gloves.
- Avoid direct contact with electrolyte.
- Wear protective clothing and a positive pressure Self-Contained Breathing Apparatus (SCBA).

6. 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 material with bare hands.
- Keep batteries between -30°C and 35°C for prolonged storage.

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: LTEP – N/A, STEP – N/A

Respiratory Protection: N/A

Ventilation: Local exhausts, mechanical (general), special or other – N/A

Protective Gloves: N/A

Eye Protection: N/A

Other Protective Clothing or Equipment: N/A

Work/Hygienic Products: N/A

8. STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: None

Incompatibility (Materials to Avoid): None

Hazardous Decomposition of Byproducts: None

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Hazardous Polymerization: Will not occur

9. 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.

10. DISPOSAL CONSIDERATIONS

Dispose of batteries according to government regulations.

11. TRANSPORT INFORMATION

These batteries are considered to be “dry cell” batteries and are unregulated for purpose of transportation by the U.S. Department of Transportation (DOT), International Civil Aviation Administration (ICAO), International Air Transport Association (IATA) and International Maritime Dangerous Goods Regulations (IMDG). The only DOT requirement for shipping these batteries is special provision 130, which states: “Batteries, dry, are not subject to the requirements of this subchapter only when they are offered for transportation in a manner that prevents the dangerous evolution of heat (for example, by the effective insulation of exposed terminals). The only requirement for shipping these batteries by ICAO and IATA is Special Provision A123 which states, “An electrical battery or battery powered device having the potential of dangerous evolutions of heat that is not prepared so as to prevent a short circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or in the case of equipment, by disconnection of the battery and protection of exposed terminals) is forbidden from transportation.” The International Maritime Dangerous Goods Code (IMDG) regulate them for ocean transportation under Special Provision 304 which says: “Batteries, dry, containing corrosive electrolytes while will not flow out of the battery if the battery case is cracked are not subject to the provision of this Code provided the batteries are securely packed and protected against short circuits. Example of such batteries are: alkali-manganese, zinc carbon, nickel metal hydride and nickel-cadmium batteries.

Non-dangerous goods.

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

12. REGULATORY INFORMATION

Special requirements would be according to local regulations.

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13. OTHER INFORMATION

The data in this Material Safety Data Sheet relates only to the specific material designated herein.

To the best of our knowledge, the information contained herein is accurate. However, Roscoe Medical does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user.

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