

**GARMIN.**

# **GARMIN ALKALINE BATTERY INFORMATION**

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**GARMIN LTD. OR ITS SUBSIDIARIES  
C/O GARMIN INTERNATIONAL  
1200 E. 151ST STREET  
OLATHE, KS 66062 USA**

# GARMIN ALKALINE BATTERY INFORMATION

## ALKALINE BATTERY

This data sheet is applicable to Alkaline batteries contained in Garmin GPSMAP® 96C, GPSMAP®196, GRC® 10, GVN® series remotes and Alkaline Battery Kit products, Garmin Index™

### I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Alkaline Batteries located within above products

Company Name: Garmin International, Inc. 1200 E. 151<sup>st</sup> Street, Olathe, KS 66062

Product Category: Article

CHEMTREC® 24 hr Emergency: US 800-424-9300

CHEMTREC® 24 hr Emergency: AUS 61-290372994, Toll-Free: 1-800-262-8200

CHEMTREC® 24 hr Emergency: International 703-527-3887

### II. HAZARD(S) IDENTIFICATION

Chemical contents are contained in sealed cathode can. Potential risk of exposure may occur if battery is mechanically or electrically abused. Potential risk may occur when a cell vents it releases caustic alkali that attacks the skin and eyes.

### III. COMPOSITION/INFORMATION ON INGREDIENTS

Substance	WT Percent	CAS #
Nickel Plated Steel	33.5%	12671-80-6
Manganese Dioxide	18.9%	1313-13-9
Zinc	16.9%	7440-66-6
Potassium Hydroxide	9.5%	1310-58-3
Polypropylene	8.0%	9003-07-0
Zinc Oxide	4.2%	1314-13-2
Cellulose	2.3%	9004-34-6
Vinyl Polymer	2.3%	9002-83-9
Polyolefin	2.1%	9002-84-0
Carbon	2.1%	7782-42-5

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## IV. FIRST-AID MEASURES

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Symptoms of Exposure: Under conditions of normal use there should be no exposure to hazardous materials. In the event of an opened/ damaged battery:

- **Inhalation:** Contents of an opened battery cell can cause respiratory irritation
- **Ingestion:** Contents of an opened battery cell can cause stomach irritation and burns. Seek medical help immediately if ingested.
- **Skin Contact:** Contents of an opened battery cell can cause skin irritation.
- **Eye Contact:** Contents of an opened battery cell can cause eye irritation.

## V. FIRE-FIGHTING MEASURES

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- **Extinguishing Media:** Water, CO2, Dry chemical or foam.
- **Unusual Fire & Explosion Hazards:** Fires in confined spaces or involving large quantities of batteries may produce dangerous fumes. Do not open, crush, disassemble, or incinerate any battery. Do not expose any battery to extreme heat or fire.

## VI. ACCIDENTAL RELEASE MEASURES

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Notify safety personnel of large spills. Caustic potassium hydroxide may be released from leaking or ruptured batteries. Clean-up personnel should wear appropriate clothing to avoid eye and skin contact and inhalation of vapors and fumes. Ventilate area. Carefully collect batteries and place in a suitable container for disposal.

## VII. HANDLING AND STORAGE

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- **Storage:** Store in a cool place, prevent condensation on cell or battery terminals. Elevated temperatures may result in reduced battery life. Optimum storage temperatures are between -31°F and 95°F.
- **Handling:** Short circuit will bring high temperature elevation to the battery as well as shorten the battery life. Avoid short circuits as the heat can burn attendant skin and rupture the battery cell case. Batteries packaged in bulk containers

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should not be shaken.

- **Charging:** This battery is not designed for recharging. Intentional or unintentional recharging can result in venting, leaking or rupture.
- **CAUTION:** Do not puncture or otherwise damage the battery or dispose in fire, mix with other battery types, connect improperly or short circuit. May explode or leak causing injury.

## VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

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No protective equipment is necessary under conditions of normal use. In the event of a fire or opened cell:

- **Eye/Face protection:** Goggles and face shield
- **Skin Protection:** Gloves and protective clothing
- **Respiratory Protection:** Inorganic dust respirator

## IX. PHYSICAL AND CHEMICAL PROPERTIES

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- **Appearance:** Cylindrical or prismatic shape
- **Odor:** none
- **pH:** Not Applicable
- **Flash point:** Not applicable unless individual components exposed
- **Flammability:** Not applicable unless individual components exposed

## X. STABILITY AND REACTIVITY

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Finished consumer product – stable under normal conditions of use. Contents are incompatible with strong oxidizing agents. DO not heat, crush, disassemble, short circuit or recharge.

## XI. TOXICOLOGICAL INFORMATION

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This battery product is a finished consumer product. It is classified as an “article” and exempt under the federal OSHA Hazard Communication standard.

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## XII. ECOLOGICAL INFORMATION (NON-MANDATORY)

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No eco-toxicity data are available. This product is not expected to present an environmental hazard. Alkaline batteries do not contain any added mercury, cadmium or lead.

## XIII. DISPOSAL CONSIDERATIONS (NON-MANDATORY)

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Recycle or dispose in accordance with applicable Federal, state, and local regulations. Do not incinerate or heat batteries to temperatures above 100°C (212°F). Alkaline batteries can be safely disposed of with normal household waste. Do not accumulate large quantities used batteries for disposal as accumulation could cause batteries to short circuit. Do not incinerate.

## XIV. TRANSPORT INFORMATION (NON-MANDATORY)

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Alkaline batteries used in Garmin products are not subject to hazardous materials (dangerous goods) regulations for the purpose of transportation provided they are securely packaged in a manner that prevents dangerous evolution of heat and protects against short circuit.

## XV. REGULATORY INFORMATION (NON-MANDATORY)

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The finished alkaline battery product is considered an article and not covered by OSHA Hazard Communication Standard, 29 CFR 1910.1200

## XVI. OTHER INFORMATION

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This information has been compiled from sources considered to be dependable and is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty (either expressed or implied) or guarantee is made to the accuracy, reliability or completeness of the information contained herein.