



Battery - Containing Product Information Data Sheet

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™

Garmin is providing this Data Sheet as a service to its customers for general information purposes only. The information in this Data Sheet has been provided to Garmin by the battery manufacturers, and Garmin has not independently evaluated its accuracy or completeness. This Data Sheet is not intended to be a comprehensive exposition of the properties of Alkaline batteries. No guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein.

Section 1: Product and Company Identification

Product Name: Alkaline Batteries located within above products.

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

Product Category: Article

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

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

Section 2: 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 KOH it releases caustic alkali and attacks the skin and eyes.

Section 3: 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	2.3%	9002-84-0
Carbon	2.1%	7782-42-5

Section 4: First-Aid Measures

Symptoms of Exposure: Under conditions of normal use there should be no exposure to hazardous materials.

In the event of an opened 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

Section 5: Fire-Fighting Measures

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 any incinerate battery. Do not expose any battery to extreme heat or fire.

Section 6: Accidental Release Measures

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.

Section 7: Handling and Storage

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 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.

Section 8: Exposure Controls/Personal Protection

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

Section 9: Physical and Chemical Properties

Appearance: Cylindrical or prismatic shape

Odor: none

pH: Not Applicable

Section 9: Physical and Chemical Properties, continued

Flash point: Not applicable unless individual components exposed

Flammability: Not applicable unless individual components exposed

Section 10: Stability and Reactivity

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.

Section 11: Toxicological Information

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

Section 12: Ecological Information (non-mandatory)

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.

Section 13: Disposal Considerations (non-mandatory)

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.

Section 14: Transport Information (non-mandatory)

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.

Section 15: Regulatory Information (non-mandatory)

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

Section 16: Other Information

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.