

Product Information Sheet

Panasonic Batteries

Panasonic Industrial Company
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Product: Alkaline Batteries

Applicable models/sizes: All Cylindrical and 9-Volt

Revision: October 1, 2008

The batteries referenced herein are exempt articles and are not subject to the OSHA Hazard Communication Standard requirement. This sheet is provided as a service to our customers.

MSDS

Material Safety Data Sheets (MSDS) are a sub-requirement of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR Subpart 1910.1200. This Hazard Communication Standard does not apply to various subcategories including anything defined by OSHA as an "article". OSHA has defined "article" as a manufactured item other than a fluid or particle; (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

Because all of our batteries are defined as "articles", they are exempt from the requirements of the Hazard Communication Standard; hence a MSDS is not required.

The following components are found in a Panasonic Alkaline battery:

| Component | Material | Formula | CAS # |
|--------------------|---------------------|------------------|-----------|
| Positive Electrode | Manganese Dioxide | MnO ₂ | 1313-13-9 |
| | Graphite | C | 7782-42-5 |
| Negative Electrode | Zinc | Zn | 7440-66-6 |
| Electrolyte | Potassium Hydroxide | KOH | 1310-58-3 |

Disposal

All Panasonic Alkaline batteries are classified by the federal government as a non-hazardous waste and are safe for disposal in the normal municipal waste stream. Exception: California, which as of February 8, 2006 requires disposal of these batteries in accordance with the California Universal Waste Rules. Check local your local regulations for proper disposal.

Transportation

Panasonic Alkaline batteries are considered to be "dry cell" batteries and are unregulated for purposes of transportation by the U.S. Department of Transportation (DOT), International Civil Aviation Administration (ICAO), International Air Transport Association (IATA) and the International Maritime Organization (IMO). The only requirements for shipping these batteries by DOT is Special Provision 130 which states: "Batteries, dry are not subject to the requirements of this subchapter when they are securely packaged and offered for transportation in a manner that prevents the dangerous evolution of heat (for example, by the effective insulation of exposed terminals) and protects against short circuits. .The only requirement for shipping these batteries by air is ICAO and IATA Special Provision A123. By ocean the IMO regulates them under Special Provision 304. These Special Provisions have requirements which are similar to

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the requirements found in Special Provision 130 of the DOT. Under the IATA regulations if your consignment has a waybill, this waybill must contain the words “Non-Restricted” and “Special Provision A123”.

First Aid

If you get electrolyte in your eyes, flush with water for 15 minutes without rubbing and immediately contact a physician. If you get electrolyte on your skin wash the area immediately with soap and water. If irritation continues, contact a physician. If a battery is ingested, call the National Capital Poison Center (NCPC) at 202-625-333 (Collect) or your local poison center immediately

General Recommendations

CAUTION: May explode or leak if recharged, inserted improperly, mixed with different battery types or disposed of in fire. Do not open battery.

Fire Safety

In case of fire, you can use any Class of fire extinguisher. Cooling the exterior of the batteries will help prevent rupturing. Fire fighters should use self-contained breathing apparatus.

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