

# Product Information Sheet

## Panasonic Batteries

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**Product: Alkaline Batteries**

**Applicable models/sizes: All**

**Revision: D; Dated 10/01/04**

**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
Positive Electrode	Electrolytic Manganese Dioxide	MnO <sub>2</sub>
Negative Electrode	Zinc	Zn
Electrolyte	Potassium Hydroxide	KOH

## Disposal

Since January 1992 all Panasonic Alkaline batteries are manufactured with "no mercury added". These batteries are classified by the federal government as non-hazardous waste and are safe for disposal in the normal municipal waste stream. Exceptions: California requires non-households to dispose of these batteries in accordance with the California Universal Waste Rules; Minnesota (Hennipen County only) requires consumers and non-consumers to dispose of these batteries as a hazardous waste.

## 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 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 requirements 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."

**Notice:** The information and recommendations set forth are made in good faith and are believed to be accurate at the date of preparation. Panasonic Industrial Company makes no warranty expressed or implied.