



## Energy Systems Group

The products referenced herein are exempt articles and are not subject to OSHA's Hazard Communication Standard requirements for preparation of material safety data sheets. This information sheet is provided as a service to our customers.

### Section I - Product Information

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**Identity:** Nickel Cadmium Batteries (NiCd)

**Models:** All

**Date:** May 9, 2001

**Manufacturer**

Motorola - Energy Systems Group

1700 Belle Meade Court

Lawrenceville, GA 30043

**Phone: 770-338-3000**

**FAX: 770-338-3556**

### Section II - Material Ingredient Information

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**Important Note:** The battery pack and enclosed cells should not be opened, disassembled, crushed, burned, or exposed to high temperatures (> 60° C, 140° F). Exposure to the following ingredients contained within the battery pack could be harmful under some circumstances. In case of exposure to cell contents, wash affected area for at least 15 minutes with generous amounts of water and seek medical attention. Fires involving these types of battery packs should be extinguished with any available extinguishing media.

Motorola battery packs are composed of NiCd cells from various manufacturers. NiCd cells are generally composed of the following major ingredients:

Positive electrode: Nickel, Nickel Oxyhydroxide, Nickel Hydroxide

Negative electrode: Cadmium, Cadmium Hydroxide

Electrolyte: Potassium Hydroxide and/or Sodium Hydroxide

### Section III - Disposal

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All NiCd batteries are classified as a Hazardous Waste because of the presence of Cadmium. The materials contained within are classified as a hazardous waste because of toxicity, not corrosiveness and therefore must be disposed of properly. Motorola NiCd batteries contain recyclable materials. Recycling options available in your local area should be considered when disposing of this product. Do not dispose of in fire.

### Section IV - Transportation

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Motorola sealed NiCd battery packs 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 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 requirements for shipping these batteries, in all modes of transportation, are that they be separated from each other to prevent short-circuits and to prevent movement that could lead to short-circuits. Products must also be packed in strong packaging that can withstand the rigors normal to transportation. These products are labeled in accordance to requirements for cargo shipments of NiCd batteries and cells.

**For transportation emergencies involving Motorola battery products, call CHEMTREC at 1-800-424-9300.**

**Notice:** The information and recommendations set forth are made in good faith and are believed to be accurate at the date of preparation. Motorola makes no warranty expressed or implied with respect to this information and recommendations and disclaims all liability from reliance on it.