



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

Identity: Lithium-Ion Batteries (Li-Ion)

Models: All

Date: January 1, 2004

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

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 flooded with water or use CO₂, Foam, or Dry Chemical extinguishing media.

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

Positive electrode:	Lithiated metal oxides (LiCoO ₂ or LiMn ₂ O ₄)
Negative electrode:	Graphitic carbon
Binders:	Polyvinylidene difluoride and/or polytetrafluoroethylene
Electrolyte:	lithium salt (lithium hexafluorophosphate) organic solvents including one or more of the following: ethylene carbonate, diethylcarbonate, dimethylcarbonate, ethylmethylcarbonate, and propylene carbonate.

Li-Ion cells are not manufactured to contain lithium metal.

Section III - Disposal

All Motorola Li-Ion 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

Motorola ESG Li-ion batteries comply with all applicable shipping regulations as prescribed by industry and legal standards which includes compliance with the United Nations Recommendations on the Transport of Dangerous Goods, Model Regulations, 12th Revised Edition; IATA Dangerous Goods Regulations, 44th Edition, 2003, Special Provisions A45, A88, or A99, as applicable; UNECE, ADR, 2003 Edition, ECE/TRANS/160, Vols. I and II; IMO, IMDG Code, 2002 Edition; and, applicable U.S. DOT regulations for the safe transport of Li-ion consumer batteries. These products are tested, packaged and labeled in accordance with all applicable requirements as outlined in these transportation regulations.

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. "Equivalent lithium content" information is available from manufacturer.