



Lithium battery pack marking

Do lithium-ion batteries need warning labels?

Warning labels (or marking) of these batteries are essential to ensure safe handling, operation, and disposal, thereby mitigating potential safety risks and preventing accidents. This paper examines the labeling practices of over 200 lithium-ion cells from 20 manufacturers and 6 countries and reviews changes in warning labeling from 2003 to 2023.

Do I need to apply warning & Overpack labels for lithium batteries?

You need to apply CAUTION & overpack labels of lithium battery when shipping lithium batteries that fall under Section II of Packing Instructions 965, 966, or 967. These instructions cover different scenarios:

What is the difference between a lithium battery label and an Overpack?

The CAUTION label (lithium battery mark) alerts carriers and handlers that a package contains potentially reactive energy sources. An overpack --a larger outer packaging containing multiple smaller packages-- must also display the proper markings to ensure compliance with UN3480 (batteries) or UN3481 (batteries packed with equipment) requirements.

What are the marking requirements for batteries?

Marking requirements for batteries. Beginning January 1, 2030, marked with proper labeling to ensure proper collection and recycling, by identifying the chemistry of the battery and including an indication that the battery should not be disposed of as household waste.

Properly use CAUTION & Overpack Labels of lithium battery for safe, compliant shipping. Follow placement, marking, and regulatory tips to avoid shipment issues.

This guide, developed by Himax Battery, summarizes the latest lithium battery shipping rules, providing engineers, compliance officers, and logistics partners with the most current and ...

A practical, data-driven guide to lithium battery shipping marks and labels (UN3480/3481/3090/3091). Learn when to use the lithium battery mark, Class 9 and CAO labels, size ...

Each distinct shipping guide in this document refers to the regulatory requirements for a specific lithium cell/battery type, configuration, and size. In this way, a shipper will easily find the ...

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Discover the right lithium battery shipping label. Includes UN number, Class 9 markings, CAO labels, & ASLG expert tips for global transport.

When shipped as a cargo consignment, battery-powered tracking devices and data loggers that contain fully regulated lithium cells or batteries are subject to all of the provisions of the ...

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Now that you know the types of lithium batteries, you'll have a better idea of which labels your package needs. But how do you clearly identify what kind of battery is inside? That's where the ...

Guide to UN3480 and UN3481 lithium battery labels, including compliance requirements, materials, and printing advice. Learn how to choose durable synthetic labels for safe transport and thermal transfer ...

By developing new voluntary battery labeling guidelines, EPA seeks to increase consumer awareness of the presence of batteries in products and to empower consumers to properly ...

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