

Are container energy storage batteries dangerous goods





Overview

Are battery energy storage systems a threat to maritime safety?

12. March 2025 In recent years, demand for the maritime transportation of containerised Battery Energy Storage Systems (BESS) has grown significantly. However, due to the high safety risks associated with energy storage containers, their transportation poses new challenges to maritime safety.

How do I identify a lithium battery hazardous goods container?

Except for vehicles driven by lithium batteries (pure electric or hybrid), containers containing lithium battery hazardous goods must have Class 9 hazardous goods labels and UN number markings affixed to each side and each end of the container (for lithium-ion battery energy storage systems, on two opposite sides).

What is a Dangerous Goods label for lithium batteries?

Except for containerized lithium-ion battery energy storage systems and vehicles powered by lithium batteries (pure electric or hybrid), packages containing lithium batteries or battery packs must be affixed with the 9A dangerous goods label as shown in Figure 4 or the lithium battery mark as shown in Figure 5, as required.

What are the risks associated with battery transport?

One of the major risks associated with the transport of batteries and battery-powered equipment is short-circuit of the battery as a result of the battery terminals coming into contact with other batteries, metal objects, or conductive surfaces.



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[Battery guidance document](#)

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Sep 5, 2025 · Lithium batteries (classified as UN 3480/UN 3481 under UN Dangerous Goods Regulations) power a wide range of devices, from consumer electronics to electric vehicles ...



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[UN 3480, UN3481, UN3090, UN3091, UN3171, UN3536: ...](#)

Lithium battery products are classified as Class 9 dangerous goods and divided into several categories such as lithium batteries, lithium battery equipment, battery-powered vehicles, and ...



[Shipping battery energy storage systems](#)

In the past few months, Gard has received several queries on the safe carriage of battery energy storage systems (BESS) on ships. In this insight, we highlight some of the key risks, regulatory ...

Risks associated with transporting containerised Battery Energy Storage

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