

# Risks and hidden dangers in the transportation of new energy batteries

What are the risks associated with battery power?

Battery power has been around for a long time. The risks inherent in the production, storage, use and disposal of batteries are not new. However, the way we use batteries is rapidly evolving, which brings these risks into sharp focus.

What are the risks of a ship power battery?

As ship power batteries, the potential risks are electrical abuse (mainly caused by over-charging and over-discharging) and mechanical abuse. 1.

Are batteries safe?

However, despite the glow of opportunity, it is important that the safety risks posed by batteries are effectively managed. Battery power has been around for a long time. The risks inherent in the production, storage, use and disposal of batteries are not new.

Are lithium-ion batteries a threat to the maritime industry?

Lithium-ion batteries are still relatively new but have already become a major part of everyday life. The maritime industry is still learning and needs to adapt to these new sets of risks and mitigate them accordingly. Scientific evidence is essential to develop effective risk mitigation strategies.

What happens if a battery is damaged?

Where the battery is damaged, it can overheat and catch fire without warning. Batteries should be checked regularly for any signs of damage and any damaged batteries should not be used. The incorrect disposal of batteries - for example, in household waste - can lead to batteries being punctured or crushed.

Are batteries a dangerous cargo?

Nonetheless, as dangerous goods, they must be declared and shipped as such under the applicable UN number. Additionally, the vessel will have a Document of Compliance (DOC) for dangerous cargo, which indicates where the batteries can be safely stowed on board. Furthermore, all batteries must be tested and must meet the specified criteria.

The global drive towards sustainability has ushered in a new era of transportation, prominently featuring the rise of Battery Electric Vehicles (BEVs). The rapid rise ...

During marine transport, LIBs are regarded as dangerous goods and classified as Class 9 "Miscellaneous Dangerous Goods" in IMDG Code, and the main risks are thermal ...

Hidden risks of batteries include chemical leaks, environmental pollution from improper disposal, and health

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hazards from exposure to toxic materials used in battery ...

batteries by means of transportation of dangerous goods under the law, which seriously affects the healthy development of waste battery recycling industry [56].

Transportation risks. Lithium-ion batteries also pose specific transportation risks, especially in the context of air travel and cargo shipping. The International Air Transport Association (IATA) and ...

As the demand for lithium-ion batteries (LIBs) increases, driven by the rise in electric transportation and renewable energy storage, the volume of battery waste also grows. ...

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 ...

As global economies look to achieve their net zero targets, there is an increased focus on the development of non-fossil fuel alternative energy sources, such as battery power. ...

Lithium-ion batteries (LIBs) are widely used in portable electronics and electric vehicles (EVs), and they are now a part of everyday life. Lithium-ion batteries offer a number of ...

o Lithium-ion batteries power essential devices across many sectors, but they come with significant safety risks. o Risks increase during transport, handling, use, charging and storage. o ...

There are clear dangers and safety concerns to consider when transporting Li-ion batteries. It is important to recognise that the supply chain also handles these batteries and related products ...

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