

# Customs Lithium Battery Transportation Risk Assessment

How to conduct a safety risk assessment for lithium batteries?

The first step to conduct a safety risk assessment is to identify potential hazards. In the case of carriage of lithium batteries as cargo, here are some examples of potential hazards that can be found: large volume of e-commerce parcels containing high capacity lithium batteries that are packed in plastic bags or simply undeclared.

Why did the IATA develop a lithium battery compliance resource?

To enhance awareness and maintain compliance, the IATA developed this resource to support shippers, freight forwarders and ground handlers in navigating the complexities of lithium battery transport.

What are the risks of using lithium batteries on a plane?

Due to the common use of lithium batteries for powering electronic devices, such as mobile phones, tablets, laptops and mobility aids, and the possibility of having substandard batteries on board, incidents may occur in both the cabin and baggage.

Should lithium-ion batteries override safety concerns in the logistics supply chain?

However, at an industry conference in March 2023, 'Lithium-ion batteries in the logistics supply chain,' it was stressed that manufacturers' ambitions to develop more powerful, lighter and diverse battery cells should not be allowed to override safety concerns for their transportation.

Should lithium batteries be accepted by shippers or freight forwarders?

Consequently, operators may wish to consider, as one of the available risk mitigation measures, accepting lithium batteries, especially batteries shipped alone (without the equipment) only from pre-approved shippers and freight forwarders. When establishing the approval process, operators can consider the following factors:

Can lithium batteries be transported as cargo?

In the case of carriage of lithium batteries as cargo, here are some examples of potential hazards that can be found: large volume of e-commerce parcels containing high capacity lithium batteries that are packed in plastic bags or simply undeclared. After identifying the potential hazards, assess the likelihood of the hazards to occur.

Introducing Li-ion battery cargo screening, inspections and vanning surveys; and; Introducing transparency related to factory audit and supply chain know your customer procedures. Further CINS guidelines are expected in due course, dealing with compliance, risk assessment and emergency response, as well as training and awareness.

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o Fire Risk Assessments should cover handling, storage, use, and charging of lithium-ion batteries and be undertaken by a competent person. o Emergency procedures and staff training should include specific instructions for dealing with damaged or faulty batteries. Further reading: Lithium Ion Battery Safety Guidance

Risk Management Safety Assessment Over the Life- Cycle of Lithium-Ion Batteries in EV. June 2024 ; International Journal of Recent Engineering Science 11(3):32-47; June 2024; 11(3):32-47; DOI:10. ...

This document provides guidance for operators on assessing and mitigating risks associated with transporting lithium batteries by air. It covers lithium batteries in cargo, mail, and passenger baggage. Key challenges include the huge worldwide volume of lithium batteries shipped annually, including counterfeit or substandard batteries not ...

Last year ICAO announced several new rules that should help air cargo to mitigate the risks of lithium battery transport. Sullivan says that the main changes centre on how much charge the batteries should carry during transportation.

Lithium battery test summary - effective 1 January 2020, manufacturers and subsequent distributors of cells or batteries and equipment powered by cells and batteries manufactured after 30 June 2003 must make available the test summary as specified in the UN Manual of Tests and Criteria, Revision 6 and amend. 1, Part III, sub-section 38.3, paragraph 38.3.5. Note: The ...

As such, Lufthansa Cargo would like to provide information on which lithium batteries are accepted for transportation by Lufthansa Cargo. Effective 01 April 2022, following were ...

As a key component in electric vehicles or electronic devices, highly flammable lithium-ion batteries have been a growing concern for transportation safety, as evidenced by a number of lithium-ion battery fires in vehicle containers. Therefore, it is important to assess the key risk factors for fire accidents during the transportation of lithium-ion batteries.

In November 2023, the IATA (International Air Transport Association) released a new fact sheet on transport guidance for lithium batteries. The document offers key ...

The purpose of this document is to provide guidance for complying with provisions applicable to the transport by air of lithium batteries as set out in the DGR. Specifically, the document ...

As such, Lufthansa Cargo would like to provide information on which lithium batteries are accepted for transportation by Lufthansa Cargo. Effective 01 April 2022, following were removed from regulations: UN3090 Section II (EBM), and UN3480 Section II (EBI).

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performance-based standard for lithium battery packaging and from recommending to mandating operators to conduct safety risk assessments for the transport of items cargo compartments. ...

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o UN 3536 : LITHIUM BATTERIES INSTALLED IN CARGO TRANSPORT UNIT lithium ion batteries or lithium metalbatteries o UN 3556 : VEHICLE, LITHIUM ION BATTERY POWERED ...

Undertaking a suitable and sufficient fire risk assessment in compliance with the Regulatory Reform (Fire Safety) Order 2005, is the first step. The fire risk assessment should be undertaken by a suitably competent person and should cover handling, storage, use, and charging of ...

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