

Lithium Batteries

Challenges - Business - Compliance

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Agenda

- 1. Introduction
- 2. Regulations
- 3. Hazards
- 4. Challenges



Introduction

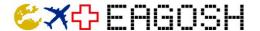
Increasing demand for lithium batteries as they can be found in:

Consumer Goods

Industrial Goods







Types of Lithium Batteries

Lithium ION (including Lithium polymer batteries)

- rechargeable (secondary) batteries commonly used in consumer electronics
- most popular battery for portable electronics: laptops, mobile phones, camcorders, etc.



Lithium METAL (including Lithium alloy batteries)

- contain lithium metal, not rechargeable
- most popular for powering watches, calculators, cameras and remote controls but also used in PC motherboards to store the bios memory









Batteries and Cells

Lithium battery

- a lithium battery consists of two or more connected cells
- Although a battery contains multiple cells for the purpose of these regulations it is consideres as one battery. The number of cells inside the battery is irrelevant.

Lithium cell

 sometimes single cells are sufficient to power a small device









Dangerous Goods Regulations - Overview



Orange Book - United Nations Recommendations on the Transport of Dangerous Goods



GGBefG - Gefahrgutbeförderungsgesetz **GbV** - Gefahrgutbeauftragtenverordnung



ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

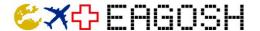


IMDG-Code - International Maritime Dangerous Code



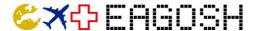
IATA-DGR - International Air Transport Association-Dangerous Goods Regulation

ICAO T.I. - International Civil Aviation Organization Technical Instructions



IATA DGR Classification

- Lithium Batteries are classified as Class 9 Miscellaneous Goods as:
 - UN3480 LITHIUM ION BATTERIES
 - UN3090 LITHIUM METAL BATTERIES
- or if inside a piece of equipment or packed separately with a piece of equipment as:
 - UN3481 LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT
 - UN3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT
 - UN3091 LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT
 - UN3091 LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT
- In the absence of exceptions these batteries must be shipped in quantities that comply with IATA DGR.



Battery Sections

Depending on the watt-hour or lithium content of the batteries, these can be transported according to the following sections.

Exemption: If batteries are meeting the requirements in Section II PI 967 & PI 970 no marking and labeling is required.

Section I / IA

PI 965 - 970

Requirements:

- -DG trained
- -UN specification packaging
- -Marking and labeling
- -Shipper's declaration for Dangerious Goods

Section IB

PI 965 & 968

Exceeds weight limitations of Sec II

Requirements:

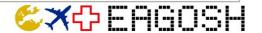
- -DG trained
- -Strong outer package
- -Marking and labeling
- -Weight limitation
- -Transport Document

Section II

PI 965, 966, 968, 969

Requirements:

- -Strong outer package
- -Marking and labeling
- -Weight limitation
- -Transport Document



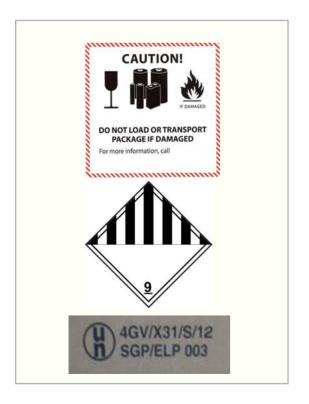
Battery Sections

Label requirements according to IATA DGR

Section I / IA

Section IB

Section II





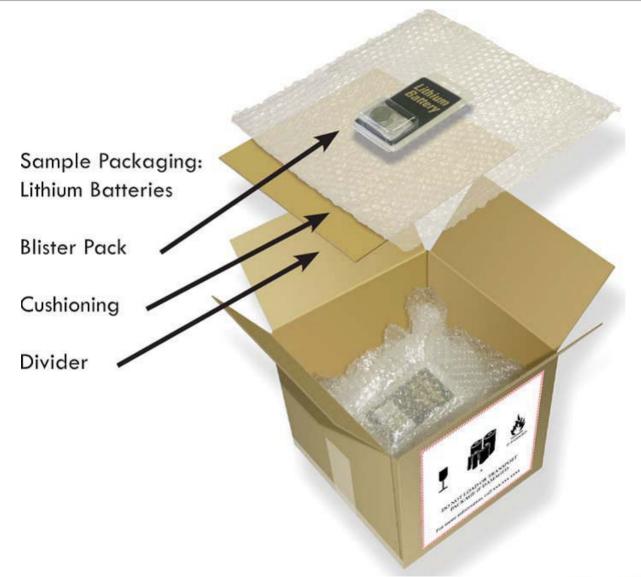


Exemption:

If batteries are meeting the requirements in Section II PI 967 / PI 970 no marking and labeling is required.



Sample Packaging as per IATA DGR





Extract of Special Provisions in IATA DGR

A48 Packaging tests are not considered necessary (UN3091/UN3481 only)

A88 Transport of Prototypes and low production

A99 Shipments >35kg gross mass allowed (UN3090/UN3480 only)

A154 Defective batteries and cells are forbidden for transport

A164 Transport of electrical batteries and battery-powered vehicles

Extract only. Other Special Provisions may be applicable to your shipment.



Hazards

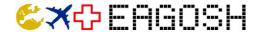
We need to be compliant to prevent incidents involving single shipments to whole pieces of equipment











Hazards

Remember:

While you can extinguish a fire involving lithium ion batteries with an aircraft halon fire extinguisher you **cannot** do the same with lithium metal batteries.







Challenges



Raise Customer Awareness – "But it's only a battery! That's not DG!"



Help customers with identifying their products and thus stay compliant



Educate stuff on detecting hidden DG



Create systems that help identifying batteries that do not have any special requirements



Providing all necessary information/documents to make it easier for the costumer





Raise Customer Awareness

DHL provides customer information posters and some additional information online.





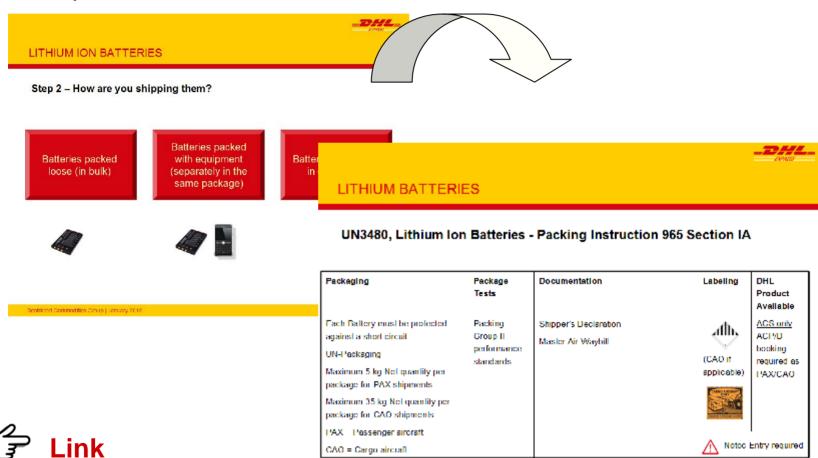






Identifying Batteries

DHL provides a LiBa interactive tool which provides an overview of the requirements







Educate staff on hidden DG

Theoretical Training

- "How to identify Hidden Dangerous Goods" is part of every DG Awareness course
- Staff is trained in indications of hidden DG, for example typical AWB entries, marking, labeling, general descriptions, etc.

Practical Training

- Practical addition to theoretical DG
 Awareness training
- The focus is on overall awareness, as well as identifying and detecting dangerous goods presented as general cargo
- DHL called it S.A.L.T.
 Standard Awareness
- Level Testing

Available Information

 Information for the handling staff must be available at all times, for example job aids, operating procedures, etc.





Information / Documents

In addition to information material DHL also provides editable pdf files for their customers.

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Any questions?



Thank you for your attention!

