

BEST PRACTICE TO TRANSPORT

Purpose:

Maersk is committed to ensuring the overall safety of maritime transportation. Therefore, we have created this easy reference document as a step-by-step guide to book certain commodities, which is intended to support the safety of our crew at sea and shoreside, as well as safety of cargo, environment, vessels, and facilities.

Commodity:**Batteries****Description:**

An electric battery is a device consisting of one or more electrochemical cells that convert stored chemical energy into electrical energy. Each cell contains a positive terminal, or cathode, and a negative terminal, or anode. Electrolytes allow ions to move between the electrodes and terminals, which allows current to flow out of the battery to perform work. Batteries have much lower specific energy (energy per unit mass) than common fuels such as gasoline.

Cell: Enclosed electrochemical unit consisting of one positive and one negative electrode capable of generating electric current, which exhibits a voltage differential across its two terminals.

Battery: One or more cells which are electrically connected by permanent means, including case, terminals and markings.

Synonyms:

Cells, DC power, Dry cells

Type of Container:

Acceptable in all container types

Risk:

The risk of not complying with these guidelines may result in fire or explosion.

Corrosive substances can damage and contaminate the container. Cargo is, by interaction with water, liable to become spontaneously flammable or to give off flammable gases in dangerous quantities.

The main risk of lithium batteries is the "thermal runaway" which can lead into a fire or explosion.

Maersk.com Commodity Description:

- Lithium Batteries (Fully or co-loaded with other batteries)
- (With Lithium Batteries) Electronics, electronic appliances, audio, video equipment, telecommunication equipment
- (With Lithium Batteries) Toys, Games
- Non-Lithium Batteries only (Alkaline dry, Manganese dioxide, Silver oxide, Zinc -carbon, Nickel cadmium, Gel type, Dry charged, without electrolyte, Non-Spillable, Nickel Metal hydride)
- (With Non-Lithium Batteries) Electronics, electronic appliances, audio, video equipment, telecommunication equipment
- (With Non-Lithium Batteries) Toys, Games

Circumstances under which we accept this commodity:

- UN2794/8
 - UN2795/8
 - UN2800/8
 - UN3028/8
 - UN3090/9
 - UN3091/9
 - UN3292/4.3
 - UN3480/9
 - UN3481/9
 - UN3496/9
 - UN3536/9
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- Batteries can be shipped as non-dangerous goods against MSDS and with Special written approval.
 - The above cargo will always be accepted on Maersk operated vessels, yet for other vessel operators it will be subject to their own rules, and applicable port restrictions if any.
 - Batteries which are used, old / spent / scrap / expired / defective / disposal / recycle / waste etc. need special written approval.
 - Power bank or mobile phones commodity need to be placed under Commodity Description "Lithium Batteries (Fully or co-loaded with other batteries)" (002501)

Packing & Stuffing Remarks:

- Consignor / shipper must ensure that all packing-related activities are in full compliance with applicable IMDG packing- and tank instructions as per IMDG code 3.2.
- As per Code of Practice for Packing of Cargo Transport Units (CTU Code)

Circumstances under which we **DO NOT accept this commodity:**

- UN2794/8 Batteries not acceptable as non-dangerous goods
- UN2795/8 Batteries not acceptable as non-dangerous goods

Required documentation when shipped as Dangerous Goods:

- Dangerous Goods Declaration (DGD)
- Container Packing Certificate (CPC)

Required documentation when shipped as Non-dangerous Goods:

- MSDS & LAB Test Certificate
- Type of battery
- Confirmation of the applicable IMDG special provision
- Packing list and unpacked commodity photos without packing or cover for Shipments getting booked under Commodity Description "(With Lithium Batteries) Electronics, electronic appliances, audio, video equipment, telecommunication equipment (001413)"

How to Book Dangerous Cargo with Maersk:

- Main Website: <https://www.maersk.com/support/faqs/how-to-book-dangerous-cargo>
- EDI (Electronic Data Interface)
- [*¹Code of Practice for Packing of Cargo Transport Units \(CTU Code\)*](#)

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