



# SENDING DANGEROUS GOODS



## INTRODUCTION

# COMPLYING WITH LEGISLATION AND REGULATIONS

Strict regulations have been laid down in Belgian and international law to ensure that dangerous goods are transported safely by road. We are bound by these rules – and so are you when you send a shipment.

Dangerous goods are solids, liquids, gases, or objects that may present a short or long-term risk to human, animal, or environmental health or safety. Examples include perfumes (flammable solvents), e-cigarettes (toxic substances), and batteries (corrosive substances).

If you would like to know more about dangerous goods or goods you can send with DHL eCommerce, then please read this guide or speak to your DHL contact.

**Important!** This guide tells you about the key points to consider before you can send anything with DHL eCommerce. You as the sender are fully responsible for sending dangerous goods in limited quantities.

# CONTENTS

# WHAT YOUR BUSINESS NEEDS TO KNOW

<b>Rules and guidelines</b>	<b>04</b>
Harmonised international rules	04
What you can and cannot send	04
Proper marking and labeling	04
<b>Hidden dangerous goods</b>	<b>05</b>
What to remember when sending LQ shipments	05
<b>Labels for lithium batteries</b>	<b>06</b>
Most cases	06
Exceptional cases	07
Invalid markings	07
<b>E-cigarettes and e-liquids</b>	<b>08</b>
Before you send anything	08
Rules on batteries	08
Sending e-liquids	09
Carriage requirements for liquids	09
<b>Special ADR carrier</b>	<b>10</b>
<b>Prohibited goods</b>	<b>11</b>
<b>Any questions?</b>	<b>12</b>

# WHAT YOU CAN AND CANNOT SEND

## RULES AND GUIDELINES FOR SENDING DANGEROUS GOODS

When it comes to carrying dangerous goods, safety is our top priority. That's why our shipping processes include a wide range of measures – some you will notice and some you won't. We are also bound by national and international legislation and regulations.

### HARMONISED RULES INTERNATIONALLY

The rules on transporting dangerous goods by road are laid down in legislation, including the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). By **Royal Decree of June 28, 2009** the international rules were transposed into Belgian law and thus made applicable to national transport. DHL eCommerce strictly adheres to the legislation and regulations that apply in Belgium and in other countries.

### VIEW THE RULES ONLINE

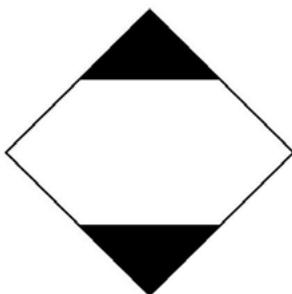
Consult the **UNECE website** for the latest and most up-to-date legislation and regulations on transporting dangerous goods.

### WHAT YOU CAN AND CANNOT SEND

With DHL eCommerce, you can only send dangerous goods in Limited Quantities (LQ); the exact maximum quantities are determined for each substance in the ADR. If you want to send dangerous goods in LQ, you must seek prior authorisation from DHL eCommerce.

### PROPER MARKING AND LABELING

We can only dispatch parcels and pallets if they are marked and/or labeled in line with ADR regulations and meet all other requirements under these rules. If you wish to send dangerous goods subject to LQ, parcels must bear the diamond-shaped mark below.



LQ mark

### NOT SURE ABOUT SOMETHING?

You as the sender are responsible for properly labeling your parcels. DHL eCommerce is not liable for any consequences if you fail to mark and label your shipment correctly. If you would like to know more about dangerous goods or goods you can send with DHL eCommerce, we'd be happy to help. Simply get in touch with your DHL contact.

# HIDDEN DANGEROUS GOODS

## DO YOU KNOW EXACTLY WHAT YOUR SHIPMENT CONTAINS?

Many everyday products and parts contain substances that pose a risk to safety, depending on the quantity and how they are packaged. It is your responsibility to send them correctly. If you have any questions about sending dangerous goods with DHL eCommerce, please contact us.

These are some common products that you might not expect to be dangerous.



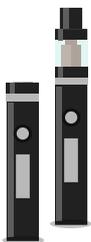
### PERFUME

Contains flammable solvents



### ACNE CREAM

Contains corrosive ingredients



### E-CIGARETTE

Contains toxic fluids and lithium batteries



### CAR BATTERY

Risk of short circuit and contains corrosive liquid



### FIRE EXTINGUISHER

High pressure, which carries a risk of explosion



### RUM

Products containing over 70% alcohol are highly flammable

## WHAT TO REMEMBER WHEN SENDING LQ SHIPMENTS

- LQ must not be sent in single packaging.
- LQ must not exceed 5 litres/kilograms per inner packaging\*.
- LQ must not have a hazard class label.
- LQ must not weigh more than 30 kilograms per outer packaging (or 20 kilograms when using trays with shrink wrap or stretch film).

\*There are specific maximum quantities per substance and packing group, but these will never exceed 5 litres/kilograms.

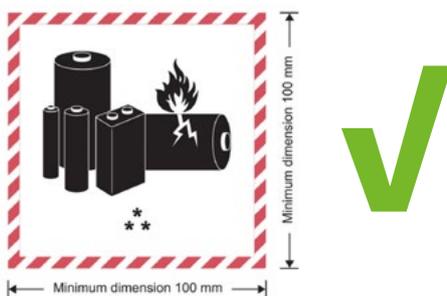
# WHAT YOU CAN AND CANNOT SEND

## LABELS FOR LITHIUM BATTERIES

If you are sending batteries, power packs, cells containing lithium-ion, or products containing lithium batteries or cells, please ensure that the shipment is marked correctly. Lithium-ion is on the list of dangerous goods, as it may ignite under certain conditions. Read on to find out what regulations apply.

### MOST CASES

In most cases, parcels containing batteries with a small energy content may be carried in accordance with Special Provision 188 of the ADR. Only this lithium mark has been permitted:



1. Attach the above mark to your shipment (in accordance with ADR 5.2.1.9.1 and 5.2.1.9.2).
2. Add the correct UN number to the lithium mark:
  - UN 3090: Loose lithium metal cells or batteries
  - UN 3091: Lithium metal cells or batteries contained in or packed with equipment
  - UN 3480: Loose lithium-ion cells or batteries
  - UN 3481: Lithium-ion cells or batteries contained in or packed with equipment

Important: If you are sending a shipment with mixed contents, use all UN numbers that apply.

3. Add a phone number to the lithium mark for additional information.

# WHAT YOU CAN AND CANNOT SEND LABELS FOR LITHIUM BATTERIES

## EXCEPTIONAL CASES

Label 9 can no longer be used on parcels containing lithium batteries sent in accordance with ADR 1.1.3.6. Please use label 9A instead, which looks like this:



Note: This label **must not be printed with a UN number or other accompanying text**. Instead, the UN number must be visible on the shipment, preferably near the label. Would you like to know more? See ADR 5.2.1.1 for the rules including letter and number sizes.

**Attention:** shipments with label 9A cannot be shipped with DHL eCommerce!

## WHERE TO BUY MARKS

The proper labels are available from various online stores. They must meet special requirements, such as minimum dimensions. Speak to the retailer for more details.

## INVALID MARKINGS

From 1 January 2019, the labels below are no longer permitted. If any of these appear on your parcel or pallet, we are unable to carry or return the shipment.



# RULES ON E-CIGARETTES AND E-LIQUIDS

Electronic cigarettes, or e-cigarettes, are powered by a battery, usually lithium-ion. They convert a liquid (the refill) into a vapour, which the smoker then inhales. Both the batteries and the liquid are considered dangerous goods. Please pay close attention to what conditions your parcels must meet.

## BEFORE YOU SEND ANYTHING

If you want to send e-cigarettes or e-liquids with DHL eCommerce, please read the manufacturer's Material Safety Data Sheet (MSDS) first. Each device and liquid has its own Material Safety Data Sheet, supplied by the manufacturer. This will tell you which batteries are used in the product and what properties the liquids have.

Section 14. Transport Information			
<b>14.1 LAND TRANSPORT (US DOT):</b>			
<b>DOT Proper Shipping Name:</b>	Nicotine		
<b>DOT Hazard Class:</b>	6.1	POISON	
<b>UN/NA Number:</b>	UN1654	<b>Packing Group:</b>	II
			
<b>14.1 LAND TRANSPORT (European ADR/RID):</b>			
<b>ADR/RID Shipping Name:</b>	Nicotine		
<b>UN Number:</b>	1654	<b>Packing Group:</b>	II
<b>Hazard Class:</b>	6.1 - POISON		
<b>14.3 AIR TRANSPORT (ICAO/IATA):</b>			
<b>ICAO/IATA Shipping Name:</b>	Nicotine		
<b>UN Number:</b>	1654	<b>Packing Group:</b>	II
<b>Hazard Class:</b>	6.1 - POISON	<b>IATA Classification:</b>	6.1
<b>Additional Transport Information:</b>	Transport in accordance with local, state, and federal regulations. When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.		

## RULES ON BATTERIES

Most e-cigarettes operate using rechargeable lithium-ion batteries. Conditions apply when sending these in a parcel, due to the substances contained in these batteries. E-cigarette batteries have a relatively small energy content. That means, in most cases, they can be carried in accordance with Special Provision 188 of the ADR (as indicated above), which requires you to attach a lithium mark to the shipment.

There are two exceptions that apply. A lithium mark is not required in the following cases:

1. Packages containing button cell batteries only, built into equipment (including printed circuit boards)
2. No more than two packages, each containing no more than four cells or two batteries built into equipment.

# RULES ON E-CIGARETTES AND E-LIQUIDS

## SENDING E-LIQUIDS

Rules also apply to sending certain e-liquids. These depend on the composition of the liquid. E-liquids may contain the following substances:

- **Glycerol (up to 40%)** known for its use in antifreeze and as an industrial plasticiser
- **Glycol (up to 48%)** known for its use in antifreeze (including 1,2-ethanediol)
- **Vanillin (up to 10%)** known for its use as a flavouring and fragrance
- **Aromatics (up to 10%)** known for their use as a flavouring and fragrance
- **Ethanol (up to 2%)** known as alcohol in beer, wine etc.
- **Nicotine (up to 4.8%)** known as the addictive component in tobacco

The UN number that an e-liquid is legally classified as, is determined by the presence, concentration, and mixing ratios of the various substances. This information can be found on the Material Safety Data Sheet.



## CARRIAGE REQUIREMENTS FOR LIQUIDS

### E-liquids classified as UN 1654

An e-liquid classified as UN 1654 (nicotine) can only be carried as a Limited Quantity. We do not carry these liquids above the maximum permitted quantity.



### E-liquids classified as UN 2810

An e-liquid classified as UN 2810 (toxic liquids, organic) can only be carried as a Limited Quantity. We do not carry these liquids above the maximum permitted quantity.



### E-liquids with low concentrations or not classified as dangerous goods

If an e-liquid is not classified as dangerous goods, you can send it with DHL Parcel without any restrictions.

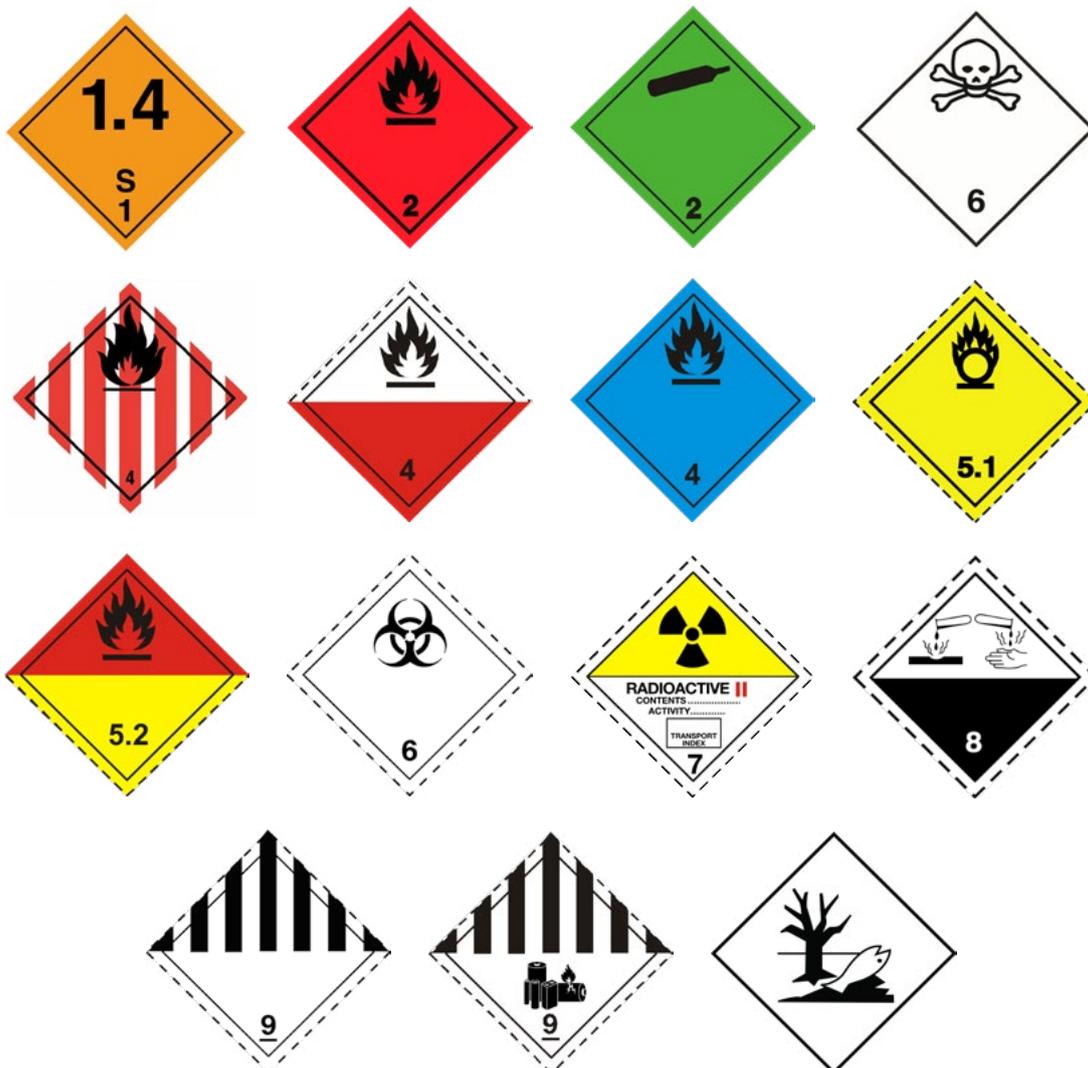
## SEEKING PRIOR AUTHORISATION

Important: If you want to send dangerous goods or other goods under ADR Chapter 3.4 such as Limited Quantities, you must seek prior authorisation from DHL eCommerce. For more information, please get in touch with your DHL contact.

# HAZARD CLASS LABELS

## SPECIAL ADR CARRIER

If your shipment bears one or more of the following labels (or variations thereof), it is not covered by the Limited Quantity regulations under the ADR and cannot be carried by DHL eCommerce. In such cases, please contact a carrier that specialises in carrying dangerous goods by road.



## PROHIBITED GOODS

# PRODUCTS THAT CANNOT BE SENT WITH DHL ECOMMERCE

In addition to parcels subject to one or more hazard class labels and therefore not covered by Limited Quantity regulations under the ADR, there are other dangerous goods that we do not carry for safety reasons. We advise you to contact a carrier that specialises in carrying such specific items:

- Products with an exceptionally high value, such as art, antiques, precious stones, and precious metals
- Products that can spoil
- Food products, unless they have been packed well and shipped unconditioned
- Money, coins, debit cards and credit cards, phonecards, securities, and valuable documents such as passports
- Human organs and human remains, including ashes
- Animals, including insects, parts of animals, and hunting trophies
- Unaccompanied luggage
- Plants, except flower bulbs
- Fertiliser
- Prohibited items such as firearms, explosives, and military equipment
- Narcotics/drugs
- Dangerous goods such as chemicals, paints, fireworks, and batteries, unless they are subject to the conditions that allow certain dangerous goods to be carried in Limited Quantities as described in this guide
- All goods, articles, and products in hazard class 6.1, with packing groups I and II
- Parcels with an inherent defect that, because of their nature, can harm people or damage merchandise or equipment
- Illegal goods such as counterfeit products
- Products whose carriage is prohibited by law in the country of origin, transit, or destination
- Products that require special facilities, safety precautions, or permits
- Products that can be considered offensive, such as pornography or goods that are politically sensitive, must be packaged correctly and the packaging may not be perceived as provocative.

## **ANY QUESTIONS?**

For more information, please get in touch with your DHL contact.