

REGULATIONS ON THE CARRIAGE OF DANGEROUS SUBSTANCES AND ARTICLES

Part 2: DHL PAKET national (Domestic DHL parcels) (valid from July 1st, 2013)¹⁾

1 GENERAL INFORMATION/SCOPE

This part 2 of the regulations shall apply to domestic parcel shipping of the following postal shipments:

- DHL Paket
- DHL Express Paket

Comments:

1. for the shipping of infectious substances in letter mail, see part 1A,
2. for the shipping of other dangerous goods in letter-like shipments (e.g. small packets, merchandise) see part 1B,
3. for express shipping of dangerous goods by contractual customers, see part 3.

Unless otherwise specified, the following shall apply (in the relevant changed version):

- the German Law on the Transport of Dangerous Goods [Gesetz über die Beförderung gefährlicher Güter, GGBefG]
- the "German Dangerous Goods Ordinance for Road, Rail and Inland Waterways" [Gefahrgutverordnung Straße, Eisenbahn und Binnenschifffahrt, GGVSEB] and
- the "European Agreement concerning the International Carriage of Dangerous Goods by Road" [ADR].

The designations and classifications used below conform to the "European Agreement concerning the International Carriage of Dangerous Goods by Road" (ADR).

The transitional measures as per 1.6.1.19, 1.6.1.20 and 1.6.1.24 ADR shall apply; maximum quantities pursuant to section 2 of this part 2 of the regulations must be complied with.

The following substances and articles are excluded from carriage:

- with the entry "TRANSPORT PROHIBITED" in the appropriate line of table A, 3.2 ADR,
- class 1 (explosive substances and articles) and class 7 (radio-active substances),
- with entry "0" in column 7a of table A, 3.2 ADR (except for substances or articles with the UN numbers 1070, 2857, 2990, 3072, 3090, 3091, 3245, 3316, 3480, 3481, and 3499 which may be transported under the conditions specified in these provisions),
- coolants and conditioning media pursuant to 5.5.3 ADR (in particular, carbon dioxide in solid form (dry ice), UN number 1845),
- dangerous goods packaged in exempted quantities pursuant to 3.5 ADR.

Substances and articles are also excluded where special provisions pursuant to 3.3 ADR and other conditions have to be complied with in addition to quantity limits for each inner packaging and concentration (in particular, special provisions 201, 226, 271, 289, 318, 319, 327, 363, 364, 565, 593, 636, 645, 658, and 661).

2 PERMISSIBLE SUBSTANCES AND ARTICLES

Permitted in the a.m. "postal shipments" are only those substances and articles which are

- dangerous goods packed in limited quantities and permitted pursuant to 3.4 ADR, or
- not subject to the provisions of the ADR because of
 - exemptions pursuant to 1.1.3.1 b), 1.1.3.2. c), f), g), and h) ADR,
 - exemptions pursuant to 1.1.3.4.1. ADR in conjunction with special provisions pursuant to 3.3 ADR, providing the latter's application is not excluded in section 1 of this part 2 of the regulations,
 - exemptions in the provisions on classification pursuant to 2.2 ADR,
 - entry in table A in 3.2 ADR. (The restrictions applying to UN number 3171 must be taken into account.)

The following limitations (including specific quantity limitations per inner packaging or each package) must be complied with regarding the carriage of the above (including quantity limits):

Class 2: Gases

- Articles of classification codes 5A, 5F, and 5O, aerosols (aerosol dispensers), UN no. 1950, and small receptacles containing gas (gas cartridges), UN no. 2037, with a maximum capacity of 1 litre per aerosol (aerosol dispenser) or receptacle and 10 litres per package,
- Articles of classification codes 5C, 5CO, and 5FC, aerosols (aerosol dispensers), UN no. 1950, with a maximum capacity of 500 ml per aerosol (aerosol dispenser) and 2 litres per package,
- Substances and articles of classification codes 1A, 2A, 3A, 4A (except for UN no. 1043), 5T, 5TC, 5TF, 5TFC, 5TO, and 5TOC, up to a maximum capacity of 120 ml per inner packaging or article and 500 ml per package,
- Substances of classification codes 1A and 2A,
 - Argon, compressed, UN no. 1006,
 - Helium, compressed, UN no. 1046,
 - Carbon dioxide, UN no. 1013, and
 - Nitrogen, compressed, UN no. 1066,
 pursuant to special provision 653 ADR [in bottles, whose product of test pressure and capacity amounts to a maximum of 15.2 MPa.litre (152 bar.litre)].
- Articles of classification codes 2A and 2O,
 - carbon dioxide, UN no. 1013, and
 - nitrous oxide, UN no. 1070, (e.g. little whipped cream capsules), pursuant to special provision 584 ADR (containing no more than 25 g gas, 0.5% air and 0.75 g gas per cm³, the leakproofness of the closure of the capsule is ensured),
- Articles of classification code 6A,
 - fire extinguishers, UN no. 1044, and
 - articles, pressurized, pneumatic or hydraulic (containing non-flammable gas), UN no. 3164, pursuant to special provision 594 ADR, and
 - refrigerating machines containing non-flammable, non-toxic gases or ammonia solutions (UN no. 2672), UN no. 2857, pursuant to special provision 119 ADR (sentence 2).

Class 3: Flammable liquids

- Substances of classification code F1,
 - Packing group I, UN nos. 1133, 1139, 1210, 1263, 1267, 1268, 1863, 1866, and 3295, up to a maximum of 500 ml per inner packaging and of 2 litres per package,
 - Packing group II, up to a maximum of 1 litre per inner packaging and 4 litres per package,
 - Packing group III, up to a maximum of 3 litres per inner packaging and 6 litres per package,
- Articles of classification code F3, polyester resin kits, UN no. 3269,
 - packing group II, up to a maximum of 500 ml per inner packaging and of 2 litres per package,
 - packing group III, up to a maximum of 1 litre per inner packaging and of 4 litres per package,
- Substances of classification codes FT1 and FC,
 - packing group II, up to a maximum of 500 ml per inner packaging and of 2 litres per package,
 - packing group III, up to a maximum of 1 litre per inner packaging and of 4 litres per package.

Class 4.1: Flammable solids, self-reactive substances and desensitized explosives

- Substances and articles of classification codes F1 and F3,
 - packing group II, up to a maximum of 500 g per inner packaging and of 2 kg per package,
 - packing group III, up to a maximum of 1 kg per inner packaging and of 4 kg per package (matches, strike anywhere, UN no. 1331: maximum gross weight 27 kg),
- Articles of classification code F1, packing group III, safety matches, UN no. 1944, up to a maximum of 5 kg per inner packaging and 20 kg per package.

Class 4.3: Substances, which, in contact with water, emit flammable gases

- Substances of classification codes W1, W2, WF1, WF2, WC1, WC2, WT1, and WT2,
 - packing group II, up to a maximum of 500 ml per inner packaging and of 2 litres or 2 kg per package,
 - packing group III, up to a maximum of 1 litre or 1 kg per inner packaging and of 4 litres or 4 kg per package.

Class 5.1: Oxidizing substances

- Substances of classification codes O1, O2, OC1, OC2, OT1, and OT2,
 - Packing group II, up to a maximum of 500 ml or 500 g per inner packaging and of 2 litres or 2 kg per package,
 - Packing group III, up to a maximum of 1 litre or 1 kg per inner packaging and of 4 litres or 4 kg per package,
- Substances of classification code O2,
 - Packing group II, UN nos. 1479, 1748, 2465, 2468, 2880, and 3212, up to a maximum of 500 g per inner packaging and 10 kg per package,
 - Packing group III, UN nos. 1479 and 2208, up to a maximum of 1 kg per inner packaging and 10 kg per package.

Class 5.2: Organic peroxides

- Substances of classification code P1,
 - UN nos. 3101 and 3103, up to a maximum of 25 ml per inner packaging and 1 litre per package,
 - UN nos. 3102 and 3104, up to a maximum of 100 g per inner packaging and of 1 kg per package,
 - UN nos. 3105, 3107, and 3109, up to a maximum of 125 ml per inner packaging and 1 litre per package,
 - UN nos. 3106, 3108, and 3110, up to a maximum of 500 g per inner packaging and of 2 kg per package.

Class 6.1: Toxic substances

- Substances of classification codes T1, T2, T3, T4, T5, T6, T7, T9, TC2, TC4, TF2, TF3, T02, and TW2, packing group II,
 - liquid substances: up to a maximum of 100 ml per inner packaging and of 1 litre per package or
 - solid substances, up to a maximum of 500 g per inner packaging and of 2 kg per package,
- Substances of classification codes T1, T2, T3, T4, T5, T6, T7, and TF2, packing group III, up to a maximum of 1 litre or 1 kg per inner packaging and of 4 litres or 4 kg per package.

Class 6.2: Infectious substances

- Exempted substances and articles pursuant to 2.2.62.1.5.1 to 2.2.62.1.5.5 ADR (unless they meet the criteria for inclusion in another class),
- Exempted patient specimens pursuant to 2.2.62.1.5.6 ADR (specimens taken from humans or animals pursuant to 2.2.62.1.5.6 ADR, with which there is a minimal probability that they may carry pathogens*),
- Animal material (animal carcasses, animal body parts, animal foodstuffs), which are known not to contain pathogens*,
- Biological products pursuant to 2.2.62.1.9 a) ADR.

* Pathogens pursuant to 2.2.62.1.1 ADR are microorganisms (including bacteria, viruses, rickettsiae, parasites, and fungi) and other pathogens such as prions, which can cause disease in humans or animals.

Class 8: Corrosive substances

- Substances of classification codes C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, and CFT and articles which contain such substances, packing group II, up to a maximum of 500 ml or 500 g per inner packaging and of 2 litres or 2 kg per package.
- Substances of classification codes C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, and CFT and articles which contain such substances, packing group III, up to a maximum of 1 litre or 1 kg per inner packaging and of 4 litres or 4 kg per package.
- Articles of classification code CT3, packing group III, mercury contained in manufactured articles, UN no. 3506, up to a maximum of 1 kg per article and 4 kg per package, pursuant to special provision 366 ADR.
- Articles of classification code C11,
 - batteries, wet, non-spillable, electric storage, UN no. 2800 in compliance with special provision 238 ADR,
 - batteries, dry, containing potassium hydroxide, solid, electric storage, UN no. 3028, up to a maximum of 2 kg per article and 4 kg per package, in compliance with special provision 304 ADR (only inactivated batteries without water).

Class 9: Miscellaneous dangerous substances and articles

- Articles of classification code M4, packing group II, lithium metal batteries, UN no. 3090, lithium metal batteries contained in equipment or packed with equipment, UN no. 3091, lithium ion batteries, UN no. 3480, and lithium ion batteries contained in equipment or packed with equipment, UN no. 3481, in compliance with special provision 188 ADR.
- Substances of classification code M5, life-saving appliances, self-inflating, UN no. 2990 and life-saving appliances, non-self-inflating, UN no. 3072 in compliance with special provision 296 ADR (last paragraph).
- Substances of classification code M6, packing group III, environmentally hazardous liquid substances, UN no. 3082, and M7, packing group III, environmentally hazardous solid substances, UN no. 3077, up to a maximum of 1 litre or 1 kg per inner packaging and 4 litres or 4 kg per package.
- Substances of classification code M8, UN no. 3245, genetically modified microorganisms (GMMO) or genetically modified organisms (GMO) in compliance with special provision 219 ADR (without use of dry ice or liquid nitrogen).
- Articles of classification code M11, chemical kit and first aid kit, UN no. 3316, in compliance with special provision 251 ADR and the maximum quantities laid down for the permissible components in this section 2 of part 2 of the regulations.
- Substances of classification code M11, which are not subject to the provisions of ADR:
 - magnetized material, UN no. 2807, in compliance with the packaging requirements in section 4 of this part 2 of the regulations,
 - battery-powered vehicles or battery-powered equipments, UN no. 3171, pursuant to special provision 240 ADR in conjunction with 2.2.9.1.7 ADR (notes),
 - electric double layer capacitors with an energy storage capacity up to a maximum of 0.3 watt-hours, UN no. 3499, pursuant to special provision 361 ADR (sentence 2), without particular quantity limit.

3 PACKAGING AND SHIPPING PROVISIONS

All substances and articles permissible under section 2 of this part 2 of the regulations for permitted substances and articles shall be packaged securely.

The fundamental packaging provisions in 3.4.1, 3.4.2, 3.4.4, and 3.4.11 ADR for limited quantities and the general packaging provisions in 4.1.1 ADR for other than limited quantities must be complied with.

Dangerous goods must always be packed inside inner packagings and placed within appropriate outer packaging. Intermediate packaging may be used.

Shrink-wrapped or stretch-wrapped trays may

- not be used as outer packaging;
- but they may be used for inner packagings with dangerous goods, which are being transported pursuant to the provisions of this section.

Inner packagings have to be packaged pursuant to 4.1.1.5 ADR.

Inner packagings that are liable to break or be easily punctured, such as those made of glass, porcelain, stoneware or certain plastics, shall be placed in suitable intermediate packagings meeting the provisions of 4.1.1.1, 4.1.1.2, and 4.1.1.4 to 4.1.1.8 ADR, and be so designed that they meet the construction requirements of 6.1.4 ADR.

Liquid goods of class 8, packing group II, in glass, porcelain or stoneware inner packagings shall be enclosed in a compatible and rigid intermediate packaging.

Threaded closures of inner packagings containing liquids (e.g. bottles and canisters) must be checked for tightness before shipment and be screwed down with the torque specified by the manufacturer. Threaded closures with integrated release devices (e.g. spray nozzle and flip caps) must be provided with an additional safety mechanism to ensure the substance can definitely not leak out.

In principle, successfully tested design types of packagings in accordance with 6.1 and 6.2 ADR is considered to provide sufficient protection against the unavoidable static and dynamic loadings normally encountered during postal transport, provided the conditions on the applicable packaging instructions are complied with.

Aerosol dispensers (UN no. 1950) shall be provided with protection against inadvertent discharge pursuant to special provision 190 ADR (sentence 1).

Articles with the UN numbers 1044 and 3164 which are manufactured and filled according to the provisions of the country of manufacture, must be packed in strong outer packagings pursuant to 6.1.4 ADR (without fulfilling the requirements relating to water resistance pursuant to 6.1.4.12.1 ADR). Fire extinguishers with UN no. 1044 must also be provided with effective protection against inadvertent discharge.

Articles with the UN nos. 3166 and 3363 must be placed in leak-proof and watertight packaging. All other dangerous content substances must be emptied before being packed and existing apertures must be sealed or made leak-proof.

Magnetic substances with UN no. 2807 must be packaged in such a way that

- the shipments cannot stick to metallic surfaces in the parcel sorting facilities and
- no damage or impairment of other shipment contents (e.g. magnetic data carriers) takes place.

 For example, this may be achieved through adequate protection of the magnetic field or through packaging of appropriate size.

Only packaging that complies with the provisions in 2.2.6.2.1.5.6 ADR is permitted to be used for the carriage of exempted patient specimens. The outer packaging must be in the form of a box.

Packaging for animal material must consist of at least three components:

- one or more primary receptacle(s):
 - a plastic film sack a minimum of 100 µm (0.1 mm) thick, tightly shut and placed in
- one or more secondary package(s):
 - a plastic film sack a minimum of 100 µm (0.1 mm) thick, tightly shut and provided with an adequate amount of absorbent material in the case of liquid contents and placed in
- outer packaging (e.g. a suitably sized stable folding box made of double wall corrugated cardboard).

An overpack is permitted.

The dangerous substances and articles listed under section 2 of this part 2 of the regulations may be packaged securely together with other goods, pursuant to 4.1.1.6 ADR in conjunction with 4.1.10.1 ADR (except for carriage pursuant to special provision 653), provided that there can be no dangerous reaction if they become exposed.

If a shipment contains different substances or articles which fall within those listed in section 2 of this part 2 of the regulations on dangerous substances and articles, the total net quantity of all such dangerous goods contained in a shipment must not exceed the maximum quantity per package, listed in any of the relevant classification codes. In this context, 1 ml is equivalent to 1 g in principle when liquids and solid substances are packed together.

¹⁾ This is a translation of the "Regelungen für die Beförderung von gefährlichen Stoffen und Gegenständen (Teil 2: DHL PAKET national)" in its version as of July 1st 2013 in German language. This translation is for convenience only. The only binding version in case of any dispute, lack of clarity or divergence is the version in German language

Empty packaging which has contained dangerous goods is subject, pursuant to 4.1.1.11 ADR, to the same provisions as filled packaging, unless appropriate measures have been taken (e.g. cleaning, neutralisation, disinfection), in order to exclude any danger.

The gross weight of the packages must not be more than 30 kg (for UN no. 1331: maximum 27 kg). It must always be sent with an indication by the sender in demonstrable form before being transported (e.g., by a clearly visible, durable statement on the package or written or electronic transfer).

4 LABELLING

Packages which contain any substances and articles in limited amount pursuant to 3.4 ADR permissible under section 2 of this part 2 of the regulations for permitted substances and articles must be labelled clearly and durably as follows (preferably on the address side) pursuant to 3.4.7 ADR:



The upper and lower sub-areas and the margin of this label must be black. The area in the middle must be white or a colour which provides an adequate contrast to the background, and must not contain any writing. Labels in line with 3.4.8 ADR (diamond with "Y") are permissible under 3.4.9 ADR.

The labelling of overpacks must be made pursuant to 3.4.11 ADR.

Until June 30, 2015, the following labels are also permitted, pursuant to 1.6.1.20 ADR:



Examples

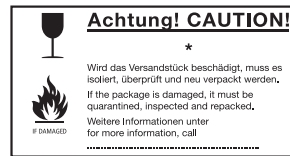
For all the labels illustrated above, the following conditions apply:

- The minimum size must be 100 x 100 mm per side and the minimum width of the line enclosing the diamond-shaped area must be 2 mm.
- Where necessitated by the size of a package to be mailed, this label may be smaller, provided that it remains clearly visible (minimum 50 x 50 mm). Here the length per side must be selected in such a way that the label can be affixed to the package over as large an area as possible. An arbitrary reduction in size is not allowed.

An exception applies for packages containing particular dangerous goods the carriage of which being subject to special provisions pursuant to 3.3 ADR, which are to be labelled as follows:

- GMMO or GMMO pursuant to special provision 219 ADR with "3245" and preceded by the letters "UN" inside a diamond (side length at least 50 mm).
- Substances pursuant to special provision 653 ADR with the relevant UN number of the gas and preceded by the letters "UN" inside a diamond (side length at least 100 mm).
- Lithium batteries with UN nos. 3090, 3091, 3480, and 3481 under special provision 188 f) ADR. This duty of labelling shall not apply to packages
 - which are contained button cell batteries installed in equipment (including circuit boards), or
 - with no more than four cells installed in equipment, or
 - with no more than two batteries installed in equipment.

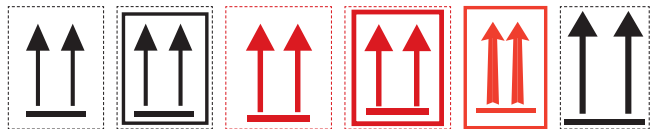
Labelling of lithium batteries as illustrated in figure 7.4.H of the IATA DGR is permitted.



Examples for labelling of packages containing lithium batteries (* = place for the respective correct designation "lithium metal batteries" and/or "lithium ion batteries")

Patient specimens which are exempted pursuant to 2.2.62.1.5.6 ADR have to be marked with the words "FREIGESTELLTE MEDIZINISCHE PROBE" (Exempt human specimen) or "FREIGESTELLTE VETERINÄR-MEDIZINISCHE PROBE" (Exempt animal specimen), as appropriate.

Orientation arrows must be applied according to 5.2.1.9 ADR (for packages with articles under UN nos. 1044, 2857, 3166, and 3363). Labels for orientation on packages according to the illustrations 7.4.D and 7.4.E of the IATA DGR are permitted.



Identifying and labelling marks will not be supplied or made available by Deutsche Post AG.

5 SPECIFIC NOTES

In derogation of the above regulations contained in this part 2, business customers are permitted to send on the basis of additional agreements.

In cases of doubt whether a substance and/or article is admitted to postal carriage, the contact data in the "Services and Prices" [Leistungen und Preise] directory may be used for inquiries.

The minimum and maximum dimensions in accordance with the "Services and Prices" [Leistungen und Preise] directory must be observed.

For designing the shipments, the information in

- "General Terms and Conditions of DHL for the Domestic Parcel/Express Service" (GT&C Paket/Express National)
- the "Transport conditions for DHL domestic and international parcel services" [Versandbedingungen DHL Paket national/international] or
- product-related brochures must be complied with.

In the event of non-compliance with the provisions of these regulations, the sender shall be liable for the consequences of any damage occurring during shipping.

Last revised: March 2013

Remarks:

The present version of this Part 2 is based on the current legal framework. In case the provisions regarding coolants and conditioning agents (section 5.5.3 ADR) should be changed, if applicable, or if their implementation should be facilitated by national legislation (Implementing Rules for Hazardous Goods (RSEB)), special adaptations of the provisions as mentioned above can be made. Any such adaptations will be published on the Internet at www.dhl.de/neue-agg