# Specifications for programming shipping logistics systems

## Part G – DHL Express
## Appendix Dangerous Goods

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# 1 Introduction

## 1.1 Content of this document

This document describes DHL Express dangerous goods services with regard to implementation in a shipping logistics system.
Identification, documentation, marking of dangerous goods is not part of this document.

## 1.2 Definition

### Dangerous Goods

#### 1.2.1.1 GGBefG

- Act on the Transport of Dangerous Goods (Dangerous Goods Transport Act - GGBefG)

#### 1.2.1.2 IATA DGR

- International Air Transport Association Dangerous Goods Regulations
- IATA rules for the transport of dangerous goods by air

#### 1.2.1.3 COR

- Accord européen relatif au transport international des marchandises Dangereuses par Route
- From 2021 = Agreement concerning the International Carriage of Dangerous Goods by Road
- Rules for the transport of dangerous goods by road (European Convention)

#### 1.2.1.4 IMDG

- International Maritime Code for Dangerous Goods
- Regulation for the transport of dangerous goods in international shipping

#### 1.2.1.5 LQ - Limited Quantities

- Limited quantities in IATA Chapter 2.7 and ADR Chapter 3.4

#### 1.2.1.6 EQ - Excepted Quantities

- Excepted quantities in IATA Chapter 2.6 and ADR Chapter 3.5

#### 1.2.1.7 Full DG – Dangerous Goods – IATA

- Dangerous goods for which a shipper's declaration for dangerous goods is required and which comply with the provisions on transport in passenger or cargo aircraft (CAO marking), if at the same time no transport document is required according to Chapter 5.4 ADR or it is not subject to ADR
- Separate dangerous goods agreement is required
- The country of departure and destination as well as dangerous goods must be agreed in advance with DHL Express or taken from the corresponding tables on the Internet.

### 1.2.2 DHL specific designations

#### 1.2.2.1 Handling Feature Code

- 3-digit DHL code, printed on the transport label in the handling block (white lettering on a black background)
- List with the handling feature codes dangerous goods can be found in the appendix 8.1.3

#### 1.2.2.2 Dangerous Goods Content ID

- 3-digit DHL code is included in EDI data or API request
- List of dangerous goods content IDs is attached 8.1.3

#### 1.2.2.3 DHL Service Code

- 2-digit DHL service code to be included in EDI data or API request

### 1.2.3 MyDHL API

- The MyDHL API RESTful web service is the standard web service of DHL Express.
- Not all country-specific features and requirements are included in this document. Please contact your DHL Express contact person in the respective country
- The XML formats (SOAP and XML-PI) are no longer covered by this specification. If you have any questions about these formats, please contact your DHL representative.
- Information about MyDHL API web service can be found in the developer portal https://developer.dhl.com/api-reference/dhl-express-mydhl-api

#### 1.2.3.1 EDIFACT IFTMIND01B

- The message format to be used for this is the IFTMIN_D01B_V99 in the current version.
- The document "EDIFACT_Nachricht_IFTMIN_D01B_V99_XX_DE.pdf" describes the structure, naming conventions, etc. in detail.
- Data transfer to DHL Express is only possible via SFTP.

#### 1.2.3.2 Web Service Global Label Service (GLS)

- This web service is for the creation of a DHL-compliant label only
- Generation of shipment data is not possible.
- For technical specifications, please contact your DHL representative.
- WSDL https://wsbexpress.dhl.com/sndpt/DocumentRendering?wsdl

#### 1.2.3.3 Dangerous goods text

- Text required by IATA or ADR regulations for the description of dangerous goods.
- At IATA, the text corresponds to the "Nature and Quantity of Goods" field in IATA DGR, Chapter 8.2.

### 1.2.4 Legend in the document

- Sections marked with * have been changed or newly added.

# 2 Dangerous goods DHL Express

Depending on the type of transport (road, air, sea), dangerous goods are declared differently and are subject to different regulations. Therefore, DHL offers different dangerous goods services depending on the type of transport.
In the following, the dangerous goods services are briefly described and the requirements regarding label, EDI, etc. are listed.

## 2.1 Applied Dangerous Goods Regulations

- GGBefG, GGVSEB and GGAV
- ICAO-TI / IATA-DGR in global air transport
- ADR for national and cross-border road transport
- IMDG code for sea transport

## 2.2 Requirements for shipping dangerous goods[1]

The Dangerous Goods Service allows the transport of dangerous goods for DHL Express shipments under the following conditions:

- Gross weight of the package must not exceed 30 kg[2]
- DHL Express generally does not transport dangerous goods of classes/subclasses 1, 2.3, 6.2 (except UN3373) and class 7.
- The transport of dangerous goods is subject to various restrictions such as the type of chosen product and services, the designated DHL network with country-specific, local and operational restrictions.
- For the international express shipment of dangerous goods, the conclusion of an additional agreement is required in addition to a DHL Express customer number.
- The national shipment of dangerous goods can be carried out without an additional agreement according to the "Regulations for the Carriage of Dangerous Substances and Articles" of DHL Express.
- Dangerous goods shipments must be correctly declared in accordance with the relevant and current national and international dangerous goods regulations.
- DHL Express strives to transport dangerous goods as quickly as possible. For this reason, we only accept dangerous goods with a simplified declaration in accordance with ADR chapters 1.1.3.4 and 1.1.3.9. Specifically, these are dangerous goods with exemptions in connection with special regulations, with dangerous goods packaged in limited or exempted quantities and exemptions in connection with dangerous goods used as coolant during transport. This also applies to dangerous goods according to ADR Chapter 1.1.4.2 in the pre- and onward carriage of air traffic!

[1] Source: https://www.dhl.de/de/geschaeftskunden/express/infos-knowhow/gefahrgut.html

[2] There are no weight restrictions for certain dangerous goods.

### 2.2.1 Instructions for shipping dangerous goods

- Transporting dangerous goods is risky if the goods are not properly declared, packaged, labeled or are handled incorrectly
- Everyday goods such as cleaning products, aerosols, alcohol-containing cosmetics or medicine, and certain electronic equipment are dangerous goods. The DHL Express dangerous goods experts can help you with correct declarations at dangerousgoodsgermany@dhl.com
- Manufacturers of the above-mentioned products provide you with safety data sheets (SDS, MSDS) with information on transport. In section 14 of these documents you will find information about the transport. Some dangerous goods are exempt from the declaration by the rules on special provisions, please note this in the waybill for air transport with "not restricted as per special provision A...".
- If your shipments do not contain any dangerous goods, you should add "not restricted" to the contents printed on the waybill
- For the shipment of lithium batteries, you will find a presentation on the correct declaration under this Link in the download area

## Shipper obligations

- All training or instruction required by the regulations for the shipper must have been completed.
- In particular, for the declaration of a shipment in air transport, training according to personnel category 1 must have been successfully completed (exception for UN 3373, UN 3245 and lithium batteries according to Section II of the Packaging Regulations). A list of training providers can be found on the website of the German Federal Aviation Authority
- The shipper has full legal responsibility regarding the classification, identification, packaging and marking, as well as for the correct documentation of a dangerous goods shipment.
- The Shipper is obliged to comply with the regulations specified by DHL Express regarding products and services, quantity limits and network restrictions.
- The shipper has the obligation not to put any "hidden dangerous goods" into circulation. Violations must be reported by DHL Express as administrative offenses and may be subject to fines if punished by the authorities.

### 2.2.2 Shipper responsibilities

- The shipper is responsible for correct marking and labelling and can be found in the current IATA and ADR regulations (GGBefG §9 paragraph 5)
- The correct entries on the waybill regarding the "Nature and Quantity of Goods" are the responsibility of the shipper. The wording mentioned here and in the attached documents is only an example
- For details regarding the creation of EDI messages and labels, see "Specifications for Programming Shipping Logistics Systems Part G – DHL Express".
- The information provided must comply with the conditions of IATA DGR 8.0.2.1 and ADR 5.4.0.

## 2.3 Dangerous goods for road transport – ADR[3]

### 2.3.1 Accepted and unaccepted Dangerous Goods – ADR*

- Information on the accepted and non-accepted dangerous goods can be found on our website at https://www.dhl.de/de/geschaeftskunden/express/infos-knowhow/downloads.html#gefahrgutversand
- Direct link https://www.dhl.de/dam/jcr:9f801ac7-1adf-40a4-96e4-c391cade1cd6/dhl-express-gefahrgutversand.pdf

### 2.3.2 Dangerous goods according to ADR chapter 1.1.3.6 (1000 points regulation) *

- Dangerous goods after exemption in ADR chapter 1.1.3.6 (1000 points regulation).
- Only with special agreement for selected countries, hazardous substances and packaging instructions.
- Content ID A02, Service Code HN.
- If you have any questions, please contact your DHL contact.

[3] Source: https://www.dhl.de/de/geschaeftskunden/express/infos-knowhow/gefahrgut.html

## 2.4 Dangerous goods for air transport – IATA[4]

### 2.4.1 Accepted and unaccepted Dangerous Goods – ADR*

- Information on the accepted and non-accepted dangerous goods can be found on our website at https://www.dhl.de/de/geschaeftskunden/express/infos-knowhow/downloads.html#gefahrgutversand
- Direct link https://www.dhl.de/dam/jcr:9f801ac7-1adf-40a4-96e4-c391cade1cd6/dhl-express-gefahrgutversand.pdf

### 2.4.2 Excepted Quantities (EQ) – IATA

- Exempted quantities according to IATA DGR Chapter 2.6
- Quantity limitation
    - IATA DGR Section Limitations – Table 2.6.A **(EQ code must not be E0**)
- Compliance with Operator Variation **D0-02:** The waybill for dangerous goods in "exempted quantities" must list the applicable UN number in addition to the requirements in 2.6.8.2

### 2.4.3 Dry Ice – UN1845

- UN1845 – IATA Packaging Instruction PI954

### 2.4.4 Biological Substance – UN 3373

- Biological Substances Category B (UN 3373)
- UN3373 – IATA Packaging Instruction PI950
- Only possible with the products "Medical Express" – CMX, WMX
- The earliest possible time option is included in the product, Saturday delivery is optional.

### 2.4.5 Magnetized Substances – UN 2807

- Magnetized Fabrics and Objects
- UN2807 – IATA Packaging Instruction PI953
- **No shipping** if official permits are required for transport

### 2.4.6 Genetically modified microorganisms – UN 3245

- UN3245 – IATA Packaging Instruction PI959
- Dangerous goods text "UN3245 GMO/GMMO"
- If the shipment contains more than one package, the number of packages with UN3245 in addition. Dangerous goods text "UN3245 GMO X pcs" (X stands for the number of packages)

[4] Source: https://www.dhl.de/de/geschaeftskunden/express/infos-knowhow/gefahrgut.html

## 2.5 Lithium Batteries – IATA / ADR

### 2.5.1 Exclusion

- Defective or damaged lithium batteries are excluded from shipping!

### 2.5.2 Lithium Batteries – ADR

- Lithium batteries according to ADR special regulation 188

### 2.5.3 Lithium Batteries – IATA

- Separate dangerous goods agreement lithium batteries is necessary
- Lithium batteries for which a Shipper's Declaration is required according to the packaging regulations are full of dangerous goods
- Lithium batteries, which are exempt from the labeling requirement according to the IATA DGR, can be transported as normal goods without providing a DHL Service Code and Content ID. The note "not restricted" in the table of contents was intended to indicate the exemption from the labelling obligation.

## 2.6 Sodium Ion Batteries – IATA / ADR*

### 2.6.1 Exclusion

- Defective or damaged sodium-ion batteries are excluded from shipping!

### 2.6.2 Sodium Ion Batteries – ADR

- Sodium ion batteries according to ADR special regulation 188

### 2.6.3 Sodium Ion Batteries – IATA

- Separate dangerous goods agreement sodium-ion batteries is necessary
- Sodium ion batteries, which are exempt from the labeling requirement according to the IATA DGR, can be transported as normal goods without providing a DHL Service Code and Content ID. The note "not restricted" in the contents printed on waybill should indicate the exemption from the labelling obligation.

# 3 Dangerous goods shipping with DHL Express

## 3.1 Overpacking

- Overpacking is considered a package in this document.

## 3.2 Manifest list

- The following information must be included on a separate document or on the DHL manifest list (ADR Chapter 3.4.12)
- LQ / limited quantities = Indication of the gross weight of all dangerous goods shipments packed in limited quantities in KG (GGVSEB §18 Duties of the sender / ADR chapter 3.4.12)
- Does not apply to lithium batteries (according to SV188)
- UN1845 = Reference is sufficient E.g. "UN 1845 CARBON DIOXIDE, SOLID, AS A COOLANT" (ADR Chapter 5.5.3.7.1)
- EQ / exempted quantities = note "DANGEROUS GOODS IN EXEMPTED QUANTITIES" and the number of packages (ADR chapter 3.5.6)
  Example: Number XX "DANGEROUS GOODS IN EXEMPT QUANTITIES"

## 3.3 Dangerous goods shipping and other optional services

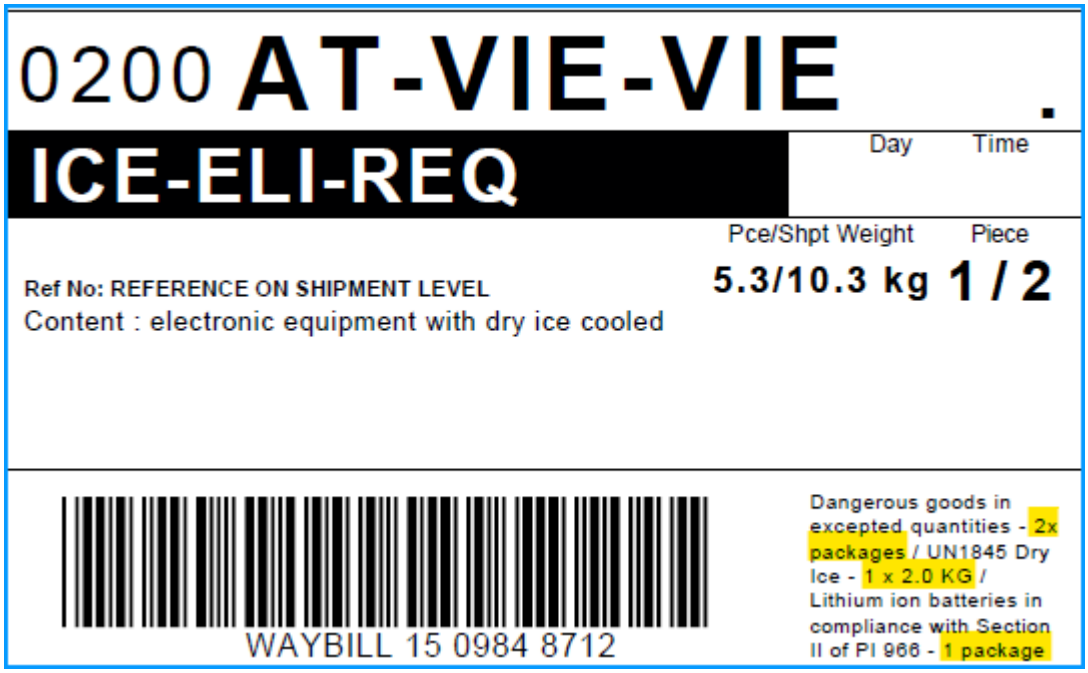
- It is permissible to combine several dangerous goods services within one shipment, **as long as the packaging and transport regulations for the individual dangerous goods are observed,**
  e.g. *IATA DGR 9.3.2.1 Segregation of dangerous goods*
- However, the DHL Express Dangerous Goods Service cannot be combined with all other optional services offered by DHL Express. The following restrictions apply, among others:
  - The shipment of dangerous goods to DHL Packing station is excluded.
  - Self-pickup / Hold for Collection is available to a limited extent (maximum storage time for collection 24/48 hours).
  - Shipping of dangerous goods for cash payers is excluded.
  - Time options are not available for all dangerous goods.

### 3.3.1 Product – Service Matrix Dangerous Goods

- A Product Service Matrix can be found under the link in section 8.1.2 under *Basic Information DHL Express Shipping Solutions*

## 3.4 Mixed shipments and various dangerous goods

- Mixed shipments (dangerous goods and no dangerous goods) as well as different dangerous goods in one shipment are possible in compliance with IATA and ADR regulations (packing ban)
- In the case of consignments with several packages (mixed consignments / different dangerous goods), an addition is required in the dangerous goods text that shows the respective number of packages of the dangerous goods – see 4.5 and 4.2




- If all packages contain the same dangerous goods (same dangerous goods text), no addition is necessary for the number of packages – except dry ice UN1845 and Excepted Quantity
- For ADR shipments without special provisions (see 4.2) no addition is necessary

# 4 Necessary information on the transport label

- Information must be shipment-related, i.e. handling feature code and information on the dangerous goods must correspond to the dangerous goods contained in the shipment – all handling codes and all dangerous goods texts must be printed on all labels.
- The following dangerous goods-specific information is required
  - Handling Feature Code[5]
  - Dangerous goods text
- A list of the handling feature codes can be found in the appendix 8.1.3

## 4.1 Handling Feature Code Label

- The Handling Feature Code is required for each dangerous goods contained in the shipment
- If there is not enough space available, the following hierarchy should be applied
  1. Full Dangerous Goods
  2. Dry Ice UN1845
  3. Excepted Quantities
  4. Lithium Metal PI969
  5. Lithium Ion PI966
  6. Lithium Ion PI967
  7. Lithium Metal PI970
  8. Sodium Ion Batteries PI 977*
  9. Sodium Ion Batteries PI 978*
  10. Biological UN3373
  11. GMO / GMMO UN 3245*
  12. Limited Quantities according to ADR*

## 4.2 Special feature of dangerous goods ADR

- Reference to the applicable special provision as dangerous goods text, in the case of several packages, the number of packages is necessary, e.g. *Transport according to ADR special regulation XXX - 1 package*

## 4.3 Special feature UN3373 – Medical Express

- Time option before 09:00 must always be added on the label and in the routing barcode (DHL Web Service and GLS Label Rendering already included).
- In the EDI data, the time option is covered by the product.

## 4.4 Special feature: Full dangerous goods

- The routing barcode must also include the handling feature type code "032" (DHL Web Service and GLS Label Rendering already included).

[5] For exceptions, see Table DG reference table_DE.xlsx

## 4.5 Dangerous goods texts

- Text required by IATA or ADR regulations for the description of dangerous goods.
- Text must comply with current IATA and ADR guidelines.
- The exact wording may be prescribed in the IATA DGR or ADR regulations.
- Possible texts in the annex "DG reference table_DE.xlsx"
- At IATA, the text corresponds to the "Nature and Quantity of Goods" field in IATA DGR, Chapter 8.2.3
- Text must be legible and printed in its entirety.
- Character height at least 2 mm (6pt, 16 dots at 200dpi).
- Position on the label
  - Above or to the right of the AWB barcode
- The text must be printed at the shipment level.

### 4.5.1 Text for mixed consignments, various dangerous goods

- If different dangerous goods are contained in different packages or packages without dangerous goods, the number of packages with the respective dangerous goods must be added.
  - E.g. *Lithium-ion batteries in compliance with Section II of PI 966 1 package / UN1845 Dry Ice, 1 x 5.5 KG / Dangerous Goods in Excepted Quantities, 1 package*
  - See also section 3.4




### 4.5.2 Consolidation of texts

- Texts can be summarised under certain conditions, subject to the requirements of the IATA DGR and ADR

#### 4.5.2.1 Dry ice UN1845

- E.g. 2 packages with the same weight of dry ice
  - UN1845 Dry Ice, 2 x 5.0 KG
- E.g. 2 packages with different weights of dry ice
  - UN1845 Dry Ice, 1 x 2.0 KG, 1 x 1.5 KG

#### 4.5.2.2 Excepted Quantities

- It will no longer be necessary to provide the UN number from 2024.*
  - Dangerous Goods in Excepted Quantities, 2 package

- Dangerous Goods in Excepted Quantities, 2 Pkgs

#### 4.5.2.3 Lithium Batteries Packaging Regulations PI966 / 967 / 969 / 970 Part II

- Lithium batteries with the same text but different packaging groups can be combined if they are packed in the same number of packages
  - Lithium ion batteries in compliance with Section II of PI 966/967 - 2 package
  - 2 x Lithium ion batteries in compliance with Section II of PI 966/967
  - Lithium metal* batteries in compliance with Section II of PI 969/970 - 1 package
  - 1 x Lithium metal* batteries in compliance with Section II of PI 969/970

#### 4.5.2.4 Sodium Ion Batteries Packaging Regulations PI977/978 Part II *

- Sodium ion batteries with the same text but different packaging groups can be combined if they are packed in the same number of packages.
  - Natrium ion batteries in compliance with Section II of PI 977/978 - 2 package
  - 2 x Sodium ion batteries in compliance with Section II of PI 977/978

## 4.6 Label via Web Service GLS – Label Rendering

With the GLS web service, a DHL-compliant label with all necessary entries can be created by inserting the corresponding values in the XML request

- The following segments must be included in the XML request
  - Segment <GLOBAL_SERVICE_CODE > = DHL Service Code
  - Segment <FieldList Name="DANGEROUS_GOODS"> = Content ID
  - or segment <Field Name="DNG_GDS_DSC" Value="DG Text"/>

### 4.6.1 DHL Service Code – GLS

- Segment <GLOBAL_SERVICE_CODE >
  - DHL Service Code

```
<Map>
        <Entry Key="GLOBAL_SERVICE_CODE" Value="HB" />
</Map>
```

### 4.6.2 Dangerous goods text from the web service – GLS

- The text is provided by the web service
- Segment <FieldList Name="DANGEROUS_GOODS">
  - DNG_GDS_CNTN_ID = Content ID
  - DNG_GDS_UOM = kg
  - DNG_GDS_NET_WGT = Net weight of dry ice, only for UN1845 (HC)

```
<FieldList Name="DANGEROUS_GOODS">
        <Map>
          <Entry Key="DNG_GDS_CNTN_ID" Value="901"/>
          <Entry Key="DNG_GDS_UOM" Value="kg"/>
          <Entry Key="DNG_GDS_NET_WGT" Value="5"/>
        </Map>
        <Map>
                <Entry Key="DNG_GDS_CNTN_ID" Value="210"/>
        </Map>
        <Map>
                <Entry Key="DNG_GDS_CNTN_ID" Value="E01"/>
        </Map>
</FieldList>
```

### 4.6.3 Insert user-defined dangerous goods text – GLS

- A custom dangerous goods text can be inserted instead of the text from the web service.
- This option is to be used for mixed dangerous goods, see section 3.4
- A mixture with the option of section 4.6.2 is not possible.

```
<Field Name="DNG_GDS_DSC" Value="2 Packages Dangerous Goods as per associated DGD - CAO"/>
```

# 5 Necessary information in the shipment data

- Contact persons with telephone numbers for the sender and recipient must always be indicated.
- Information must be shipment-related, i.e. information on the dangerous goods must correspond to all dangerous goods contained in the shimpent.
- The following dangerous goods-specific information is required
  - DHL Service Code
  - Dangerous Goods Content ID[6]
  - Number of packages containing the respective dangerous goods[7]
  - Weight of dry ice at UN1845 per package (Service Code HC)
  - ~~UN number for Excepted Quantities per package (Service Code HH)*~~
  - Number of the IATA special regulation for Content ID HU5
  - If applicable, the IATA / ADR dangerous goods text – see also section 4.5
- A list of the codes to be used can be found in the appendix 8.1.3

## 5.1 Special feature of dangerous goods ADR

- Dangerous Goods Content ID and DHL Service Code is the same for all dangerous goods ADR, except for UN3373.[8] *

## 5.2 Special feature UN3373 – Medical Express

- ADR see section 2.3
- IATA see section 2.4.4

[6] For exceptions, see Table DG reference table_DE.xlsx

[7] If the shipment consists of more than one package or is required by ADR / IATA DGR. When using API Web Service, can only be inserted in the dangerous goods text field.

[8] For shipments according to ADR 1000 points regulation, different specifications and service codes apply – see section □

# 6 Dangerous goods with EDIFACT IFTMIN D01B

- EDI data must be in EDIFACT IFTMIN D01B format, the format is specified in the current document **EDIFACT_Nachricht_IFTMIN_D01B_V99_XX_DE.pdf**“ described
- For necessary information, see section 5

## 6.1 IFTMIN Dangerous Goods Information

| | Element | Example | IFTMIN |
|---|---|---|---|
| **Dry ice** | DHL Service Code | HC | FTX/4440 [@4451='ACB'] |
| | Content ID | 901 | SG3/RFF/1154 [@1153='DGC'] |
| | Number of packages | 1 | SG3/RFF/1156 [@1153='DGC'] |
| | Weight of dry ice | 10.250 | SG3/RFF/4000 [@1153='DGC'] |
| | Example IFTMIN | FTX+ACB+++HC' / RFF+DGC:901:1:10.250' | |
| **Special provision** | DHL Service Code | HU | FTX/4440 [@4451='ACB'] |
| | Number of packages | 1 | SG3/RFF/1154 [@1153='DGC'] |
| | Content ID | HU5 | SG3/RFF/1156 [@1153='DGC'] |
| | Special provision for HU5 | 999 | SG3/RFF/4000 [@1153='DGC'] |
| | Example IFTMIN | FTX+ACB+++HU' / RFF+DGC:H05:1:999' | |
| **All other dangerous goods** | DHL Service Code | HL | FTX/4440 [@4451='ACB'] |
| | Number of packages | 1 | SG3/RFF/1154 [@1153='DGC'] |
| | Content ID | A01 | SG3/RFF/1156 [@1153='DGC'] |
| | Information | | SG3/RFF/4000 [@1153='DGC'] |
| | Example IFTMIN | FTX+ACB+++HL' / RFF+DGC:A01:1' | |

Table 1

# 7 Dangerous goods via MyDHL API

The MyDHL API web service allows you to create a label and shipment data.

- By inserting the corresponding values, a DHL-compliant label with all necessary entries is created.
- For necessary information, see section 5
- The Service Code and Content ID must be inserted for each dangerous goods plus, if applicable:
  - Weight of dry ice UN1845 – per package with the respective weight
  - Number of the special regulation for Content HU5
  - Number of packages with dangerous goods if required by ADR / IATA DGR
  - Content ID is not required for all service codes, see Table DG reference table_DE.xlsx

## 7.1 Dangerous Goods Texts MyDHL API

### 7.1.1 Usage of dangerous goods text from MyDHL API

- Neither different dangerous goods in different packages nor mixed shipments are allowed in this option – see section 3.4
- The dangerous goods texts are provided by the web service.
- Service Special regulations (Content ID HU5) are not possible.
- For dry ice and excepted quantities, max. 1 package per shipment

### 7.1.2 Inserting Dangerous Goods Texts into API Request

- Various dangerous goods in different packages are possible in this option, as well as mixed shipments – see section 3.4
- The dangerous goods texts must be inserted according to IATA / ADR specifications.
- The number of characters of all dangerous goods texts must not exceed 200 characters.
- All dangerous goods texts of all dangerous goods contained must be inserted, a mixture with text from the web service is not possible.
  (Using text from the web service and inserting individual text is not possible)

### 7.1.3 Consolidation of texts

- To make optimal use of the available 200 characters, the texts can be summarized.
- The texts can be summarized in a single field in the request and do not have to be assigned to the respective Content ID
- See also section 4.5.2

### 7.1.4 MyDHL API

| | Element | Example | API REST *{{baseXpath}} = //valueAddedServices/ |
|---|---|---|---|
| **Dry ice** | DHL Service Code | HC | {{baseXpath}}/serviceCode |
| | Content ID | 901 | {{baseXpath}}/serviceCode/dangerousGoods/contentId |
| | Dangerous goods text[9] | UN1845 Dry Ice, 1 x 10.250 KG | {{baseXpath}}/serviceCode/dangerousGoods/customDescription |
| | Weight of dry ice | 10.250 | {{baseXpath}}/serviceCode/dangerousGoods/dryIceTotalNetWeight |
| **Excepted Quantity** | DHL Service Code | HH | {{baseXpath}}/serviceCode |
| | Content ID | E01 | {{baseXpath}}/serviceCode/dangerousGoods/contentId |
| | Dangerous goods text | Dangerous Goods in Excepted Quantities, 1 package | {{baseXpath}}/serviceCode/dangerousGoods/customDescription |
| **Special provision** | DHL Service Code | HU | {{baseXpath}}/serviceCode |
| | Content ID | HU5 | {{baseXpath}}/serviceCode/dangerousGoods/contentId |
| | Dangerous goods text with special provision[10] | Not restricted, as per special provision A999 | {{baseXpath}}/serviceCode/dangerousGoods/customDescription |
| **All other dangerous goods** | DHL Service Code | HL | {{baseXpath}}/serviceCode |
| | Content ID | A01 | {{baseXpath}}/serviceCode/dangerousGoods/contentId |
| | Dangerous goods text | Limited Quantities Road Only | {{baseXpath}}/serviceCode/dangerousGoods/customDescription |

Table 1

[9] If the element is omitted, the dangerous goods text is provided by the web service

[10] Dangerous goods text from the web service is not provided

# 8 Appendix

## 8.1 Dangerous goods information DHL Express on the Internet

### 8.1.1 Information on dangerous goods topics

https://www.dhl.de/de/geschaeftskunden/express/infos-knowhow/gefahrgut.html

### 8.1.2 Technical Specification for DHL Express Shipping Logistics Systems

https://www.dhl.de/de/geschaeftskunden/express/infos-knowhow/online-versandsysteme/versandsysteme/individuelle-versandloesungen/entwickler-spezifikationen.html?3412

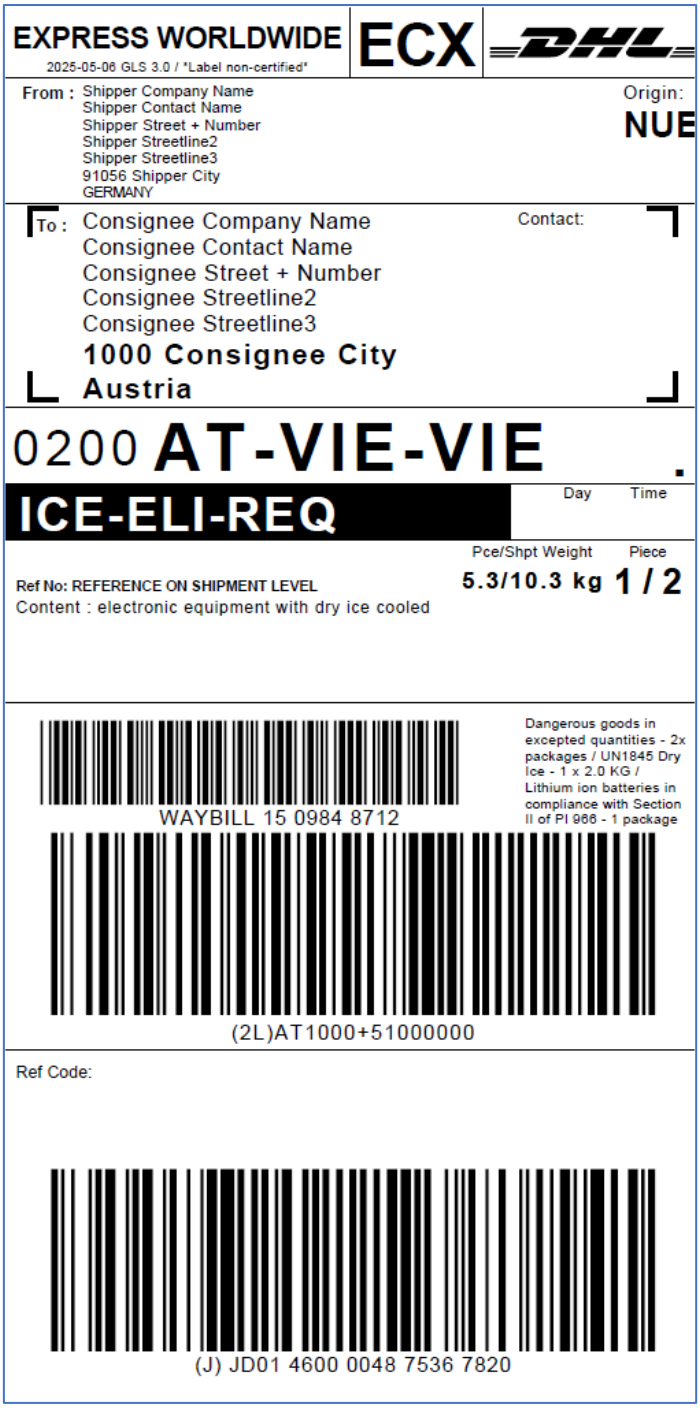
### 8.1.3 Table DG reference table_DE.xlsx

- Find you in the “Specification for DHL Express Shipping Logistics Systems” there under „Gefahrgut / Dangerous Goods“.

# 9 Examples

## 9.1 Label 200mm – Global Label Service - IATA

- IATA – Dry ice, lithium-ion battery according to PI966II, Excepted Quanties




## 9.2 Label 150 mm – Global Label Service ADR

- National shipments ADR with dry ice, lithium-ion battery according to PI966 II, Excepted Quanties

- No service required for dry ice, lithium batteries according to SV188 and Excepted Quantity uniformly E01 / HH (ADR).




## 9.3 Examples: Web Service Request (complete request)

- 2 packages according to IATA DGR
    - In the first package, dry ice 2 kg and dangerous goods according to Excepted Quantities with the UN number UN1234.

- The second package contains a lithium-ion battery (UN 3481) according to packaging regulations PI966 Part II and Excepted Quantities with UN numbers UN1234, UN3456, UN7890.

### 9.3.1 MyDHL API REST Request


```
{
   "getOptionalInformation": false,
   "productCode": "U",
   "pickup": {
      "isRequested": false
   },
   "outputImageProperties": {
      "imageOptions": [
         {
            "typeCode": "label",
            "templateName": "ECOM26_84_001",
            "renderDHLLogo": true
         }
      ],
      "printerDPI": 200,
      "encodingFormat": "pdf"
   },
   "plannedShippingDateAndTime": "{{Date}}T23:00:31GMT+01:00",
   "requestOndemandDeliveryURL": false,
   "accounts": [
      {
         "number": "{{DHL_Account}}",
         "typeCode": "shipper"
      }
   ],
   "valueAddedServices": [
      {
         "serviceCode": "HC",
         "dangerousGoods": [
            {
               "contentId": "901",
               "dryIceTotalNetWeight": 2.0
            }
         ]
      },
      {
         "serviceCode": "HD",
         "dangerousGoods": [
            {
               "contentId": "966",
               "customDescription": "Dangerous goods in excepted quantities - 2x packages / UN1845 Dry Ice - 1 x 2.0 KG /
Lithium ion batteries in compliance with Section II of PI 966 - 1 package"
            }
         ]
      },
      {
         "serviceCode": "HH",
         "dangerousGoods": [
            {
               "contentId": "E01"

            }
         ]
      }
   ],
   "getRateEstimates": false,
   "customerDetails": {
      "shipperDetails": {
         "postalAddress": {
            "cityName": "Mustercity",
            "countryCode": "DE",
            "postalCode": "91560",
            "addressLine1": "Musterstreet 120",
            "addressLine2": "Street Lines2",
            "addressLine3": "Street Lines3"
```

```
            },
            "contactInformation": {
                "phone": "49170123456789321",
                "companyName": "Max Mustermann",
                "fullName": "Muster Company AG"
            },
            "registrationNumbers": [
                {
                    "issuerCountryCode": "DE",
                    "number": "DE1234567",
                    "typeCode": "EOR"
                }
            ],
            "typeCode": "business"
        },
        "receiverDetails": {
            "postalAddress": {
                "cityName": "Mustercity",
                "countryCode": "AT",
                "postalCode": "1000",
                "addressLine1": "Musterstreet 120",
                "addressLine2": "Street Lines2",
                "addressLine3": "Street Lines3"
            },
            "contactInformation": {
                "phone": "49170123456789321",
                "companyName": "Max Mustermann",
                "fullName": "Muster Company AG"
            },
            "registrationNumbers": [
                {
                    "issuerCountryCode": "DE",
                    "number": "DE1234567",
                    "typeCode": "EOR"
                }
            ],
            "typeCode": "private"
        }
    },
    "content": {
        "unitOfMeasurement": "metric",
        "isCustomsDeclarable": false,
        "incoterm": "DAP",
        "description": "electronic equipment with dry ice cooled",
        "packages": [
            {
                "weight": 2.0,
                "dimensions": {
                    "length": 50,
                    "width": 30,
                    "height": 30
                }
            },
            {
                "weight": 3.0,
                "dimensions": {
                    "length": 50,
                    "width": 30,
                    "height": 30
                }
            }
        ]
    }
}
```


### 9.3.2 GLS – Global Label Service Request Transport Label

- In this case, only one transport label is created, the shipment data must be created and transmitted separately, e.g. via EDIFACT IFTMIN


```
<soapenv:Envelope xmlns:gls="http://www.dhl.com/GLS/GLSDoc"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
```

```
<soapenv:Header/>
<soapenv:Body>
<gls:GLSDocRequest xsi:schemaLocation="http://www.dhl.com/GLS/GLSDoc GLSDoc.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<Hdr Dtm="2010-06-30T09:30:47.0Z" GmtOff="8.0" No="1" Ver="1.0">
        <Sndr/>
</Hdr>
<Command>
        <Field Name="LOOKUP" Value="Y"/>
        <Field Name="DATA_RETURN" Value="Y"/>
        <Field Name="SHIPPER_ADDRESS_MAPPING" Value="N"/>
        <Field Name="RECEIVER_ADDRESS_MAPPING" Value="N"/>
</Command>
<Data>
        <Field Name="DHL_LOGO_FLAG" Value="Y"/>
        <Field Name="SHIPMENT_CALENDAR_DATE" Value="2025-04-29"/>
        <Field Name="PICKUP_DATE" Value="2025-04-29"/>
        <Field Name="ROUTING_CODE_DATA_INDENTIFIER" Value="2L"/>
        <Field Name="ROUTING_CODE_SYMBOLOGY" Value="]C0"/>
        <Field Name="SHIPMENT_ID_SYMBOLOGY" Value="]A0"/>
        <Field Name="NETWORK_PRODUCT_CODE" Value="U"/>
        <Field Name="WEIGHT_UOM" Value="kg"/>
        <Field Name="INCOTERM" Value="DAP"/>
        <Field Name="SHIPMENT_INFO1" Value="Ref No: REFERENCE ON SHIPMENT LEVEL"/>
        <Field Name="SPECIAL_INFOA2" Value="Shipper VAT ID : DE341445736"/>
        <Field Name="TOTAL_NO_OF_PIECES" Value="2"/>
        <Field Name="SHIPMENT_WEIGHT" Value="10.3"/>
        <Field Name="PIECE_CONTENT" Value="Content: electronic equipment with dry ice cooled"/>
        <Field Name="ADDR_SEND_NAME1" Value="Shipper Company Name"/>
        <Field Name="ADDR_SEND_NAME2" Value="Shipper Contact Name"/>
        <Field Name="ADDR_SEND_NAME3" Value="Shipper Street + Number"/>
        <Field Name="ADDR_SEND_NAME4" Value="Shipper Streetline2"/>
        <Field Name="ADDR_SEND_NAME5" Value="Shipper Streetline3"/>
        <Field Name="ADDR_SEND_NAME6" Value="91056 Shipper City "/>
        <Field Name="ADDR_SEND_NAME7" Value="GERMANY"/>
        <Field Name="ORG_COUNTRY_CODE" Value="DE"/>
        <Field Name="ADDR_SEND_CONTACT" Value="+49123456789876543"/>
        <Field Name="ORG_POSTCODE" Value="91056"/>
        <Field Name="ORG_CITY_NAME" Value="Shipper City"/>
        <Field Name="ADDR_RECV_NAME1" Value="Consignee Company Name"/>
        <Field Name="ADDR_RECV_NAME2" Value="Consignee Contact Name"/>
        <Field Name="ADDR_RECV_NAME3" Value="Consignee Street + Number"/>
        <Field Name="ADDR_RECV_NAME4" Value="Consignee Streetline2"/>
        <Field Name="ADDR_RECV_NAME5" Value="Consignee Streetline3"/>
        <Field Name="ADDR_RECV_NAME6" Value="1000 Consignee City "/>
        <Field Name="ADDR_RECV_NAME7" Value="Austria"/>
        <Field Name="DEST_COUNTRY_CODE" Value="AT"/>
        <Field Name="ADDR_RECV_CONTACT1" Value="+461234567876548"/>
        <Field Name="ADDR_RECV_CONTACT2" Value="+46170123456745898 41"/>
        <Field Name="ADDR_RECV_CONTACT3" Value="Consignee@DOT.COM"/>
        <Field Name="DEST_POSTCODE" Value="1000"/>
        <Field Name="DEST_CITY_NAME" Value="Consignee City"/>
        <Field Name="ADDR_SEND_EMAIL" Value="Shipper@DOT.COM"/>
        <Field Name="ADDR_SEND_PHONE" Value="+49123456789876543"/>
        <Field Name="ADDR_RECV_EMAIL" Value="Consignee@DOT.COM"/>
        <Field Name="ADDR_RECV_PHONE" Value="+461234567876548"/>
        <Field Name="SHIPMENT_ID" Value="150984871"/>
        <Field Name="SHIPMENT_ID_CHECK_DIGIT" Value="2"/>
        <Field Name="DNG_GDS_DSC" Value="Dangerous goods in excepted quantities - 2x packages / UN1845 Dry
Ice - 1 x 2.0 KG / Lithium ion batteries in compliance with Section II of PI 966 - 1 package"/>
        <FieldList Name="SERVICE">
                <Map>
                        <Entry Key="GLOBAL_SERVICE_CODE" Value="HC"/>
                </Map>
                <Map>
                        <Entry Key="GLOBAL_SERVICE_CODE" Value="HD"/>
                </Map>
                <Map>
                        <Entry Key="GLOBAL_SERVICE_CODE" Value="HH"/>
                </Map>
                <Map/>
        </FieldList>
        <FieldList Name="PIECE_LP_LOOKUP_LIST">
                <Map>
```

```
                        <Entry Key="PIECE_LP_DATA_IDENTIFIER" Value="J"/>
                </Map>
        </FieldList>
</Data>
<Document OutputFormat="PDF">
        <!--ECOM26_64_002 ECOM26_84_001 -->
        <Template Type="ECOM" TemplateId="ECOM26_84_001">
                <Data>
                        <Field Name="PIECE_SEQ" Value="1"/>
                        <Field Name="PIECE_WEIGHT" Value="5.3"/>
                        <Field Name="PIECE_CONTENT" Value="Content : electronic equipment with dry ice
cooled"/>
                        <Field Name="PIECE_REFERENCE" Value="Ref Code: "/>
                        <Field Name="PIECE_LP" Value="JD014600004875367820"/>
                        <Field Name="PIECE_LP_DATA_IDENTIFIER" Value="J"/>
                        <Field Name="PIECE_LP_SYMBOLOGY" Value="]C0"/>
                </Data>
        </Template>
</Document>
<Document OutputFormat="PDF">
        <!--ECOM26_64_002 ECOM26_84_001 -->
        <Template Type="ECOM" TemplateId="ECOM26_84_001">
                <Data>
                        <Field Name="PIECE_SEQ" Value="2"/>
                        <Field Name="PIECE_WEIGHT" Value="5.0"/>
                        <Field Name="PIECE_CONTENT" Value="Content : electronic equipment with dry ice
cooled"/>
                        <Field Name="PIECE_REFERENCE" Value="Ref Code: "/>
                        <Field Name="PIECE_LP" Value="JD014600004875367821"/>
                        <Field Name="PIECE_LP_DATA_IDENTIFIER" Value="J"/>
                        <Field Name="PIECE_LP_SYMBOLOGY" Value="]C0"/>
                </Data>
        </Template>
</Document>
</gls:GLSDocRequest>
</soapenv:Body>
</soapenv:Envelope>
```

## 9.4 Examples of Web Service Request – Excerpts

- Only the DHL Service Code and the dangerous goods information segment are listed.

### 9.4.1 Dry Ice UN1845 with Biological Substance UN3373 PI650

- Only possible with the Medical Express product
- 1 package with 2.5 kg dry ice and UN3373 according to packaging instruction 650

#### 9.4.1.1 MyDHL API

```
"valueAddedServices": [
        {
          "serviceCode": "HC",
          "dangerousGoods": [
          {
                  "contentId": "901",
                  "dryIceTotalNetWeight": 2.5,
                  "customDescription":"UN1845 Dry Ice - 1 x 2.5 KG / UN3373 Biological Substance, Category B - 1
package"
                }
                ]
        },
                {
          "serviceCode": "HY",
          "dangerousGoods": [
          {
                  "contentId": "650"
                  }
                ]
        }
]
```

### 9.4.2 Use of special provision

- Substance is not subject to IATA regulations if special regulation A999 is observed.

#### 9.4.2.1 MyDHL API

```
"valueAddedServices": [
        {
          "serviceCode": "HU",
          "dangerousGoods": [
          {
                    "contentId": "HU5",
                    "customDescription":"NOT RESTRICTED, AS PER SPECIAL PROVISION A999"
                  }
                  ]
        }
]
```

### 9.4.3 Limited Quantities (LQ) ADR – Text from MyDHL API

- Dangerous goods text is provided by the web service.

#### 9.4.3.1 MyDHL API

```
"valueAddedServices": [
        {
          "serviceCode": "HL",
          "dangerousGoods": [
          {
                    "contentId": "A01"
                  }
                  ]
        }
]
```

## 9.5 EDIFACT IFTMIND01B

- Example with 4 dangerous goods in 2 packages
  - Dry ice 10.25 kg and Excepted Quantities in one package
  - Lithium-ion battery according to IATA DGR and packaging regulation PI 966 Part II, as well as a substance that is transported according to special regulation 999 in the 2nd package

```
UNA:+.?
UNB+UNOC:4+140000000.90427+3D MESSAGE HUB+20221102:1650+0018
UNH+000013+IFTMIN:D:01B:UN+DHL2.5/8.0.0.5
BGM+740+1000000083+9
DTM+9:202211021650:203
DTM+11:202211021650:203
TSR+++ECX:57:87
FTX+AAA+++electronic equipment with dry ice cooled
FTX+ACB+++HD
FTX+ACB+++HC
FTX+ACB+++HH
FTX+ACB+++HU
CNT+7:12.50:KGM
CNT+11:1
CNT+15:0.006:MTQ
TOD+6++DAP
RFF+SRN:TEST DG1
RFF+DGC:901:1:10.250
RFF+DGC:E01:1
RFF+DGC:966:1
RFF+DGC:HU5:999
GOR+4
NAD+CZ+144162877++DHL EXPRESS GERMANY GMBH+HEINRICH-BRUENING-STR. 5+BONN++53113+DE
LOC+5+CGN/CGN
CTA+AC+:ESS GERMANY
COM+0228-306-35400:TE
RFF+AVY:DE111111111:EN
NAD+CN+++DHL EXPRESS GERMANY GMBH+HEINRICH-BRUENING-STR. 5+VIENNA++1000+AT
LOC+8+AT/DHL/VIE/VIE::87
CTA+AC+:CIM-CUSTOMER INTEGRATION MANAGEMENT
COM+0049-228-306-0:TE
GID+1+1:PK
MEA+WT+AAE+KGM:10.00
DIM+2+CMT:20:30:10
RFF+CU:TEST DG1
PCI+18
GIN+AW+J:JD000000000001230051
GID+2+1:PK
MEA+WT+AAE+KGM:2.50
DIM+2+CMT:20:30:10
RFF+CU:TEST DG1
PCI+18
GIN+AW+J:JD000000000001230052
UNT+42+000013
UNZ+1+0018
```