

# Restrictions and limitations

for international Dangerous Goods (DG) shipments

10kg Box

Fed Ex

Small Bo

Box

UN 3316 Chemical Kit

25kg Box

All

UN3091 XXX-XXX-XXXX

Published in January 2024 This document refers to international movements of Dangerous Goods shipments via:

**Express Air** (FedEx services)

**Economy Road** (FedEx intra-Europe service)



Large Box



Feder

# Acceptable and prohibited Dangerous Goods (DG) classes

The table below specifies which Dangerous Goods (DG) can be accepted for transport in FedEx networks. The provisions apply to air, road, and sea transport, to primary and subsidiary hazard classes, to empty packaging as well as to Excepted and Limited Quantities.

**ECOMOMY ROAD:** Regional Economy, Regional Economy Freight and all domestic services **EXPRESS AIR:** All other services.

CLASS	EXPRESS AIR	ECONOMY ROAD
1 Explosives	Class 1.4S only	Class 1.4S only
2.1 Flammable gas	✓	✓
2.2 Non-flammable / non-toxic gas	✓	~
2.3 Toxic gas	×	×
3. Flammable liquids	✓	~
4.1 Flammable solids	✓	✓
4.2 Substances liable to spontaneous combustion	✓	✓
4.3 Substances which, in contact with water, emit flammable gases	<b>~</b>	~
5.1 Oxidizers	✓	~
5.2 Organic peroxides	✓	~
6.1 Toxic substances	✓	✓
6.2 Infectious substances	~	× with the exception of UN3373
7 Radioactive material	<b>x</b> <sup>1</sup>	<b>x</b> <sup>1</sup>
8 Corrosives	✓	~
9 Miscellaneous DG substances and articles, including environmentally hazardous substances	~	~

<sup>1</sup> – acceptable on highly exceptional basis only See appendix for detailed restrictions for each hazard class.

### Important notes

All Dangerous Goods shipments offered in FedEx Express services must be compliant with actual IATA DGR regulations including all applicable FedEx DG variations.

All Dangerous Goods shipments offered in FedEx Economy intra Europe services must be compliant with actual ADR DG regulations. **NOTE.** Any FedEx Economy Dangerous Goods shipments to/from: Ireland, United Kingdom, Finland or to/from any Islands (e.g. Gotland (SE), Mallorca(ES)) will travel by SEA. Consequently, shipments must be compliant with IMDG regulations.

"ADR Transport Category 0" commodities and shipments exceeding limits of ADR 1.1.3.6 are accepted to/from selected countries only. Check with Customer Service or fedex.com for more information.

Additional country restrictions may apply. Check with Customer Service or fedex.com for more information.

Dangerous goods need to be correctly identified and handled in our operations, and may incur additional days in transit, therefore transit times for Dangerous Goods shipments are not guaranteed

Dangerous Goods shipments need to be correctly identified and therefore using of handling codes is required.

# Appendices

FedEx imposes additional restrictions which can be found in the tables:

**Table 1:**General restrictions for all hazard classes

### Table 2:

Specific restrictions for each Dangerous Goods hazard class transported by air and road

Last two columns of each table provide applicability for Express (air) and Economy (road) transport modes.

Reference to FedEx Dangerous Goods variations mentioned in brackets



## **Table 1:** FedEx Express Europe General Dangerous Goods restrictions

#### General

Waste, as defined by local, state or international regulations, will not be accepted for carriage. (FX-04 b)

For air transportation, FedEx Express will not accept shipments prepared in accordance with Special Provision A209 and shipments with competent authority approval that meet the condition of Special Provision A2 or A183, unless specifically pre-approved. (FX-04 e)

Dangerous Goods packages that cannot accommodate all of the required FedEx Express, and regulatory documentation, as well as all required regulatory marks and labels on the top or sides of the outer package, will not be accepted for carriage. (FX-06)

Any required documentation, marking and labelling will not be permitted on the bottom of the package. Exception: UN specification markings may be on the bottom of the package as permitted by the regulations. (FX-06)

FedEx branded packaging, including brown boxes, may not be used to ship Dangerous Goods or dry ice. Exceptions:

- FedEx Express white and brown boxes and tubes may be used for FedEx Express UN3091 and UN3481 Section II lithium battery shipments. (FX-06)
- FedEx<sup>®</sup> Pak may also be used to ship UN3091 and UN3481 Section II Lithium Batteries in strong rigid packaging (e.g., fibreboard box) when the package does not require a lithium battery mark. (FX-06)
- UN 3373 Biological Substance Category B may be shipped in the FedEx<sup>®</sup> UN 3373 Pak, the FedEx<sup>®</sup> Clinical Box, any FedEx Temp-Assure<sup>®</sup> packaging (FX-06)
- UN 1845, Carbon dioxide, solid (dry ice) may be shipped in any FedEx Temp Assure dry ice cooled package.

Handwritten Shipper's Declarations Declaration (or any equivalent document for road or multimodal transportation) will not be accepted. The following fields on the Shipper's Declaration must be typed or computer generated (FX-07):

- UN or ID number, including prefix Proper shipping name
- Subsidiary risk or division(s) Packing group
- Packing instruction
   Authorization

- Hazard class or division
- Packaging type
- Emergency telephone number

Note: The technical name, when required, may be handwritten.

- For radioactive shipments, in addition to the items listed above, the following must also be typed, or computer generated:
- Radionuclide, Special form, or Physical and chemical form
- All other entries may be handwritten. (FX-07)

For shipments in compliance with IATA DGR, handwritten alterations/amendments to an entry required to be typed per FX-07 are acceptable if each alteration/amendment is legible and signed with the same signature used to sign the Shipper's Declaration\*. (FX-07)

When a Shipper's Declaration (or any equivalent document for road or multimodal transportation) is required,

- For shipments in compliance with IATA regulations
  - three (3) copies must be provided with each shipment at the origin location. At least two of the copies must have the diagonal hatchings printed vertically in the left and right margins and must be printed in red. (FX-08)
  - When a shipment (or consignment) consists of more than one outer package or overpack, one additional black and white copy of the Shipper's Declaration must be affixed by the shipper to each additional outer package or overpack in the shipment. (FX-08)
- For shipments in compliance with ADR/IMDG regulations two (2) copies must be provided with each shipment at the origin location.

All Packed in One and Overpack shipments to or from the U.S. must comply with segregation requirements from <u>49 CFR 177.848</u>. Click <u>the link</u> to read more. (FX-09)

Items that meet the definition of Federal Select Agent Program (FSAP) or "Select Agents" as defined by the <u>U.S. Centres for Disease Control (CDC)</u> will not be accepted for carriage. Click <u>the link</u> to read more. (FX-04c)

## **Table 2:** FedEx Express Europe General Dangerous Goods restrictions

### Dangerous Goods shipments by AIR (in compliance with IATA DGR) & ROAD (in compliance with ADR regulations)

Class 1	<ul> <li>FedEx Express Europe will only accept explosives assigned to Division 1.4S (FX-01 b)         <ul> <li>Acceptable only to/from selected countries</li> <li>Some commodities (e.g. firearms, weaponry, ammunition) are prohibited. Consult Prohibited Items List or FedEx Terms and Conditions of Carriage for more details.</li> </ul> </li> <li>Class 1 articles and substances offered on FedEx International Priority® Freight (IPF), FedEx International Premium® (IP1) or FedEx International Express Freight® (IXF) may require a pre-alert or pre-approval-Call your local FedEx customer service number and ask for FedEx Express Freight customer service. (FX-01 a)</li> </ul>
Class 2	<ul> <li>Poison Inhalation Hazard (PIH) with a hazard zone "A" or any Class 2 substance with a toxic primary or subsidiary risk label will not be accepted for carriage. (FX-02 b)</li> <li>Shipments in compliance with IATA regulations, regardless of origin or destination, FedEx Express will only accept the UN numbers listed below when the packaging complies with 49 CFR 173.302(f), 173.304 (f) and meets DOT31FP thermal resistance and flame penetration requirements as prescribed in 49CFR Part 178 Appendix D and E (see USG-18). Outer packages must be marked by the manufacturer with the additional certification mark "DOT31FP".</li> <li>To ensure compliance with both USG-18 and FX-02(e) variations, FedEx Express will not accept the UN numbers listed in this variation in overpacks unless one of the following conditions is met:         <ul> <li>Each outer package's DOT31FP certification mark is visible for inspection by the carrier; or</li> <li>The Shipper's Declaration contains the additional compliance statement: "This shipment is prepared in accordance with USG-18 and FX-02(e)"; or</li> <li>The overpack is marked "DOT31FP compliant".</li> </ul> </li> <li>UN number — Description (FX-02 e)         <ul> <li>UN 1072 — Oxygen, compressed [200]</li> <li>UN 1074 — Nitrous oxide [200]</li> <li>UN 3156 — Compressed gas, oxidizing, n.o.s. [200]</li> <li>UN 3356 — Oxygen generator, chemical [565]</li> </ul> </li> <li>The following materials will not be accepted for carriage (see Packing Instruction [-] listed after each substance): UN number — Description (FX-04 d)</li> <li>UN 1001 — Acetylene, dissolved [200]</li> </ul> <li>Intra Europe road shipments containing lighters under ADR Special Provision 658 (UN 1057, class 2.1) are prohibited for transport by road (unless they are declared as fully regulated DG).</li>
Class 3	<ul> <li>The following materials will not be accepted for carriage (see Packing Instruction [-] listed after each substance): UN number — Description (FX-04 d) UN 1162 — Dimethyldichlorosilane [377] UN 1308 — Zirconium suspended in a flammable liquid, Packing Group I [361]</li> <li>Substances that require transport at elevated temperature are prohibited (UN 3256, UN3257)</li> </ul>
Class 4	<ul> <li>Substances shipped in molten state are prohibited (UN 2304, UN 3176, UN 2448, UN 2447).</li> <li>Substances requiring temperature control are prohibited.</li> <li>Substances with a sub risk in Class 1 are prohibited (UN 3221, UN 3222, UN 3231, UN 3232).</li> <li>For shipments in compliance with IATA regulations, of Division 4.3 originating in non-U.S. locations destined for a U.S. location must either be offered: <ul> <li>Under a limited quantity "Y" prefix Packing Instruction; or</li> <li>Sent as hold for pickup at a staffed FedEx Express facility that accepts Dangerous Goods. (FX-02 d)</li> </ul> </li> </ul>

### Dangerous Goods shipments by AIR & ROAD

<ul> <li>The following materials will not be accepted for carriage (see Packing Instruction [-] listed after each substance): UN number — Description (FX-04 d) UN 1873 — Perchloric acid, over 50% concentration [553]</li> <li>Substances requiring temperature control are prohibited.</li> <li>Substances with a sub risk in Class 1 are prohibited (UN 3101, UN 3102, UN 3111, UN 3112).</li> </ul>
<ul> <li>For shipments in compliance with IATA regulations, except for UN 1230 — Methanol and Excepted Quantities (EQ), substances with a primary or subsidiary risk of Division 6.1 in Packing Group I or II (FX-02 a) will only be accepted for international transport in UN specification packaging that meets packing group I performance standards.</li> </ul>
Note: Subsidiary hazards of Division 6.1 without a Packing Group are not subject to FX-02a
<ul> <li>Substances shipped in molten state are prohibited (UN 1600, UN 2312, UN 3250, UN 2312).</li> <li>Division 6.2, items that meet the definition of Federal Select Agent Program (FSAP) or "Select Agents" as defined by the <u>U.S. Centers for Disease Control (CDC)</u> will not be accepted for carriage. Click the link to read more. (FX-04c)</li> </ul>
<ul> <li>Class 7 shipments originating in a non-U.S. location require pre-approval. Call your local FedEx customer service number and ask for FedEx Express® Freight customer service. (FX-03 b)</li> <li>FedEx Express will not accept labelled radioactive material with a subsidiary hazard of 1.4, 3, 4.1, 4.2, 4.3, 5.1, 5.2, 8, or 2.2 with a Cargo Aircraft Only label unless the shipper is pre-approved. (FX-03 b)</li> <li>For mixtures or solutions of radionuclides enter "mixture" or "solution" as appropriate in the Quantity and Type of Packaging in association with the physical and chemical form (e.g., liquid salt solution or solid oxide mixture). (FX-03 e)</li> </ul>
<ul> <li>The following Class 8 materials will not be accepted for carriage (see Packing Instruction [-] listed after each substance): UN number — Description (FX-04 a) UN 1796 — Nitrating acid mixture, over 40% concentration [854, 855] UN 1826 — Nitrating acid mixtures, spent, over 40% concentration [854, 855] UN 2031 — Nitric acid, over 40% concentration [854, 855]</li> <li>When shipping the above substances in acceptable concentrations, the concentration MUST be indicated on the Shipper's Declaration in association with the proper shipping name. The concentration also MUST be indicated on the Shipper's Declaration in association with the proper shipping name when "Solution" is added to the Proper Shipping Names above, or when Nitric acid, Nitrating acid mixture, or Nitrating acid mixtures, spent are listed as technical names as part of the proper shipping name entry.</li> <li>Substances shipped in molten state are prohibited (UN 2215, UN 2576).</li> <li>Intra Europe road of UN 2794 and UN 2795 – "Wet Batteries" can be accepted for transport providing that: <ul> <li>They are exempted from the regulations by fully complying with the requirements of ADR Special Provision 598.</li> <li>There are no ferry crossings in the shipment's routing.</li> <li>"UN 2794/UN 2795 Not restricted as per SP598 ADR" must be mentioned in consignment note and on the package.</li> </ul> </li> </ul>
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### Dangerous Goods shipments by AIR & ROAD

Chara	
9	<ul> <li>Polychlorinated biphenyls for shipments in compliance with IATA Dangerous Goods regulations: The following Class 9 materials, if known or suspected to contain PCBs (see Packing Instruction [-] listed after each substance):         <ul> <li>UN number — Description (FX 02 c)</li> <li>UN 2315 — Polychlorinated biphenyls, liquid [964]</li> <li>UN 3077 — Environmentally hazardous substances, solid, n.o.s. [956, Y956]</li> <li>UN 3082 — Environmentally hazardous substances, liquid, n.o.s. [964, Y964]</li> <li>UN 3432 — Polychlorinated biphenyls, solid [956]</li> <li>must be packaged as follows:</li> <li>For liquids: IP3 or IP3A inner metal packaging with absorbent material utilized to fill all available space.</li> <li>For solids: Any inner packaging as per applicable packing instruction is permitted.</li> <li>Outer packaging must be a 1A2 steel drum, 4H2 plastic box, USA DOT-SP 8249, 9168 or 11248.</li> </ul> </li> <li>FedEx Express will not accept for air transportation any shipments prepared in accordance with Special Provision A209 and shipments with competent authority approval that meet the condition of Special Provision A2 or A183, unless specifically pre-approved. (FX-04 e)</li> </ul>
<b>Class</b> 9 Lithium Batteries	<ul> <li>Shipments of UN 3090 or UN 3480 offered in compliance with ADR Special Provision 188 will be acceptable for carriage only in Economy intra Europe services.</li> <li>Lithium ion cells or batteries and lithium metal cells or batteries identified as being defective for safety reasons, that have the potential of producing a dangerous evolution of heat, fire or short circuit are forbidden for transport (e.g. those being returned to the manufacturer for safety reasons or cells or batteries that cannot be diagnosed as defective prior to transport). This include shipment in compliance with ADR special provision 376.</li> </ul>
	<ul> <li>For shipments in compliance with IATA regulations:</li> <li>All batteries transported under Special Provision A88 or A99 must be pre-approved. For requirements, see www.fedex.com/dangerousgoods, select "Get Started", "Lithium Batteries". After you have the documentation for the lithium batteries, requests must be sent to: A88A99approvalrequest@fedex.com</li> <li>All lithium batteries (Section I, IA, IB and II) in all packing instructions must not be shipped in the same package as the following Dangerous Goods classes/divisions: 1.4, 2.1, 3, 4.1, 4.2, 4.3, 5.1, 5.2 and 8 and 2.2 with a Cargo Aircraft Only label.</li> <li>Packages that are excepted from having a lithium battery mark (7.1.5.5 according to Packing Instruction 967 or 970, such as temperature logging devices) may be shipped with the classes/divisions above, provided the shipper does not select UN3481, PI967 or UN3091, PI 970 in FedEx shipping automation system</li> <li>Shippers sending any data loggers or data monitors (other than FedEx SenseAware®) require pre-approval. Contact your Worldwide Account Manager (WAM) to initiate the process. If you do not have a WAM, you may contact your sales or account manager.</li> <li>Devices are approved by manufacturer and model number, and a shipper may request the approval. You may contact your WAM, Sales, or Account Manager to determine if your device is approved. (FX-05 c)</li> <li>Small battery-powered vehicles will only be accepted from companies when new and in unopened original packaging. Used, refurbished self-balancing vehicle shipments from individuals, resellers, and third-party shipments will not be accepted. (FX-04 f)</li> <li>Examples of small battery-powered vehicles subject to this variation include: <ul> <li>Hoverboards</li> <li>Self-balancing scooters</li> <li>Unicycle scooters and one-wheeled personal transport vehicles</li> </ul> </li> </ul>
	Above restriction do not apply for intra Europe Road shipments as long as shipments are fully compliant with ADR regulations.

### **IMPORTANT NOTES:**

1:

Terms and Conditions apply – visit fedex.com for full details on Dangerous Goods shipments.

#### 2:

Please note that the content contained herein is presented as a courtesy to be used only for informational purposes. FedEx attempts to ensure that the content is accurate, but not represent it to be error-free. In no event will FedEx be liable for any damages - whether direct, indirect, special, general, consequential, for alleged lost profits, or otherwise - that might result from any use of or reliance on these materials. The information contained herein may be revised from time to time, without any notice.

#### 3:

The sender is responsible for identifying, classifying, packaging, marking, labelling and completing documentation for dangerous goods shipments, in compliance with all applicable international treaties, laws and regulations. There are limitations for Dangerous Goods shipments to many destinations. If sender has questions regarding countries served, commodity restrictions by country or service availability, please contact our Customer Support team at fedex.com.

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