

FedEx Express IATA Variations

The following are FedEx Express exceptions to International Air Transport Association (IATA) dangerous goods regulations. This information is excerpted from the 2021 IATA Dangerous Goods Manual.

Note: FX-03, FX-09, FX-10 and FX-18 include information that does not appear in the printed edition of the 2021 IATA Variations. This information will be added as an addendum to the 2021 IATA Variations.

FX-01

a) Class 1 articles and substances offered on a FedEx International Priority Freight (IPF), FedEx International Premium (IP1), or FedEx International Express Freight (IXF) may require a pre-alert or pre-approval. Call the FedEx Express Freight Customer Service at +1 (877) 398 5851 for additional information (see Packing Instructions 101–143). Any Class 1 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.

b) FedEx Express will not accept for transport any explosives assigned to Division 1.3.

FX-02

a) Except for UN 1230 – Methanol and Excepted Quantities (EQ), substances with a primary or subsidiary hazard of Division 6.1 in Packing Group I or II:

- In either a UN specification packaging that meets Packing Group I performance standards, a US DOT Special Permit (SP) packaging, or prepared in accordance with 49 CFR 173.13 for USA domestic transport (shipments that have an origin and destination within the USA, including Puerto Rico).
- In a UN specification packaging that meets Packing Group I performance standards for international transport (shipments with an origin or destination outside of the USA).

Note: Subsidiary hazards of Division 6.1 without a packing group are not subject to FX-02a.

b) 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.

c) Polychlorinated biphenyls: The following Class 9 materials, if known or suspected to contain PCBs, must be packaged as follows— for liquids: IP3 or IP3A inner metal packaging with absorbent material utilized to fill all available space; for solids: any inner packaging as per applicable packing instruction is permitted. Outer packaging must be a 1A2 steel drum, 4H2 plastic box, USA DOT-SP 8249, DOT-SP 9168 or DOT-SP 11248 (**see Packing Instructions [–] listed after each substance**):

UN Number — Description

UN 2315 — **Polychlorinated biphenyls, liquid** [964]

UN 3077 — **Environmentally hazardous substances, solid, n.o.s.** [956, Y956]

UN 3082 — **Environmentally hazardous substances, liquid, n.o.s.** [964, Y964]

UN 3432 — **Polychlorinated biphenyls, solid** [956]

d) Division 4.3 dangerous goods must be offered as follows:

U.S. domestic shipments:

- under a limited quantity “Y” Packing Instruction; or

- in accordance with 49 CFR 173.13; or
- using a DOT Special Permit that does not require placarding for road transport.

Shipments originating in the U.S. and destined for a non-U.S. location must be offered:

- under a limited quantity “Y” Packing Instruction; or
- dropped off at a FedEx Express staffed facility that accepts dangerous goods.

Shipments originating in non-U.S. locations destined for a U.S. location must be offered:

- under a limited quantity “Y” Packing Instruction; or
- shipped as hold-for-pickup at a FedEx Express staffed facility that accepts dangerous goods.

e) FedEx Express will only accept the UN numbers listed below in a packaging marked with DOT31FP by the manufacturer. All packages are required to comply with US DOT packaging requirements contained in 49 CFR 173.302(f) and 173.304 (f). This is a global requirement regardless of origin or destination (**see Packing Instructions [–] listed after each substance, USG-15(d) and USG-18**):

UN Number — Description

UN 1072 — **Oxygen, compressed** [200]

UN 1070 — **Nitrous oxide** [200]

UN 2451 — **Nitrogen trifluoride** [200]

UN 3156 — **Compressed gas, oxidizing, n.o.s.** [200]

UN 3157 — **Liquefied gas, oxidizing, n.o.s.** [200]

UN 3356 — **Oxygen generator, chemical** [565]

FX-03

a) Class 7 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 1.877.398.5851 for additional information. All UN numbers containing Plutonium 239 and 241 fissile materials are prohibited for transport.

b) 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.

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.

c) All fissile shipments worldwide require pre-approval. Call 1.901.375.6806 and press “4” to reach the next Dangerous Goods Agent for assistance.

d) 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).

e) FedEx Express will not accept Radioactive Material, Excepted Package (UN 2908, UN 2909, UN 2910, UN 2911) in an Overpack nor will more than one package on a skid/pallet be accepted.

FX-04

a) The following Class 8 dangerous goods will not be accepted for carriage (**see Packing Instructions [-] listed after each substance**):

UN Number — Description

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]

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.

b) Hazardous waste as defined by local, State or International regulations will not be accepted for carriage.

c) Items that meet the definition of Federal Select Agent Program (FSAP) or "Select Agents" as defined by the U.S. Center for Disease Control (CDC) will not be accepted for carriage. See <https://www.cdc.gov/phpr/dsat/what-is-select-agents.htm>.

d) The following materials will not be accepted for carriage (**see Packing Instructions [-] listed after each substance**):

UN Number — Description

UN 1001 — **Acetylene, dissolved** [200]

UN 1162 — **Dimethyldichlorosilane** [377]

UN 1308 — **Zirconium suspended in a flammable liquid**, Packing Group I [361]

UN 1873 — **Perchloric acid**, over 50% concentration [553]

e) FedEx Express will not accept for transport any shipments prepared in accordance with Special Provision A209 and shipments with a competent authority approval that meet the conditions of Special Provision A2 or A183, unless specifically pre-approved.

f) Hoverboards or similar self-balancing vehicles (UN 3171) will only be accepted from companies if new, in unopened, original packaging. Used, refurbished self-balancing vehicles shipments from individuals, resellers, or third-party shipments will not be accepted.

FX-05

a) FedEx Express will not accept UN 3090 or UN 3480 offered as Section II.

b) All UN 3090 lithium metal batteries under Packing Instruction 968 (Section IA, IB) require pre-approval. See www.fedex.com/dangerousgoods, select Get Started, then select Lithium Batteries.

c) 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. 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 UN 3481, PI967 or UN 3091, PI970 in the FedEx shipping automation system.

d) Shippers sending any data loggers, which remain active in flight (other than FedEx SenseAware), must be pre-approved. This includes data loggers that do not transmit in flight. Contact the FedEx Dangerous Goods/Hazardous Materials Hotline at 1.901.375.6806/1.800.463.3339 (where available), say "dangerous goods," then press 4; or email dghotline@fedex.com.

Devices are approved by manufacturer and model number, and a shipper may request the approval.

FX-06 Dangerous goods packages that cannot accommodate all required Federal 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. Any required documentation, marks and labels will not be permitted on the bottom of the package. Exception: UN specification marks may be on the bottom of the package. 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 UN 3091 and UN 3481 Section II lithium battery shipments. The FedEx Pak may also be used to ship UN 3091 and UN 3481 Section II lithium batteries in strong rigid packaging (e.g. fibreboard box) when the package does not require a lithium battery mark. UN 3373, Biological Substance Category B may be shipped in the FedEx UN 3373 Pak, the FedEx Clinical Box, or any FedEx TempAssure packaging.

FX-07 This variation applies only when FX-18 does not apply. Handwritten Shipper's Declarations will not be accepted. The following fields on the Shipper's Declaration must be typed or computer generated:

- UN or ID number including the prefix, Proper shipping name, Hazard class or division, Subsidiary risk or division(s), Packing Group, Packaging Type, Packing Instruction, Authorization, 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.

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-08 When a Shipper's Declaration is required, 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-09 All Packed in One and Overpack shipments to or from the U.S. must comply with segregation requirements from 49 CFR 177.848.

See: https://www.ecfr.gov/cgi-bin/text-idx?node=pt49.2.177&rgn=div5&se49.2.177_1848

FX-10 Shipments containing accessible dangerous goods (ADG) and inaccessible dangerous goods (IDG) that are dropped off at staffed FedEx U.S. locations must be processed using a FedEx or third-party automation system, not paper airbills or air waybills.

FX-18 Shipper's Declaration for Dangerous Goods for all FedEx Express® dangerous goods shipments must be prepared using software with dangerous goods compliance edit checks and by one of the following methods:

- FedEx electronic shipping solutions (see updated information below);
- Recognized shipper proprietary software; or
- FedEx recognized dangerous goods vendor software.

Update — All FedEx electronic shipping solutions must be version 2016 or newer on or before January 1, 2022. This includes FedEx Server applications and FedEx Web-Services uploads. If the upload of the DG information is not using the FedEx DG Ready DG Data Upload Mode, or is not using the newest version of FedEx Café and FedEx.com by this date then shipments will not be accepted into the FedEx Express network.

FX-18 currently does not apply to:

- Shipments originating in non-U.S. locations (including U.S. territories overseas, such as Puerto Rico);
- FedEx International Express Freight (IXF) and FedEx International Premium (IP1);
- Shipments containing class 7 radioactive materials.

Note: *A list of FedEx recognized dangerous goods shipping application vendors can be reviewed at [fedex.com/us; dangerous goods](https://fedex.com/us/dangerous-goods) (keyword).*