

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 2020 IATA Dangerous Goods Manual.

Note: FX-02, FX-03, FX-04, FX-05, FX-06, FX-09, FX-10 and FX-18 include information that does not appear in the printed edition of the 2020 IATA Variations. This information will be added as an addendum to the 2020 IATA Variations.

FX-01

a) 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 FedEx Express® Freight Customer Service at (877) 398-5851 for 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:

- With an origin and destination within the USA, including Puerto Rico, will only be accepted in approved DOT Special Permit (SP) packaging;
- Will only be accepted for international transport in UN Specification packaging that meets Packing Group I performance standards.

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, 9168 or 11248 (**see Packing Instruction [–] 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) All U.S. domestic shipments of Division 4.3 must be offered either under a limited quantity “Y” prefix Packing Instruction or offered 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” prefix 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 either be offered under a limited quantity “Y” prefix Packing Instruction or sent as hold for pickup at a staffed FedEx Express facility that accepts dangerous goods.

e) FedEx Express will only accept the UN numbers listed below in packages bearing the DOT31FP mark by the manufacturer. This is a global requirement regardless of origin or destination (**see Packing Instruction [-]** listed after each substance **and USG-15(d)**).

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. The following UN numbers are prohibited when the contents include Plutonium 239 (PU 239) or Plutonium 241 (PU 241): UN 3324, UN 3325, UN 3326, UN 3327, UN 3328, UN 3329, UN 3330, UN 3331 and UN 3333.

b) FedEx Express will not accept labeled radioactive material with a subsidiary risk 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 on the IDG Label approval list.

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 will not be accepted for carriage (**see Packing Instruction [-]** 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) <https://www.cdc.gov/phpr/dsat/what-is-select-agents.htm> will not be accepted for carriage.

d) The following materials will not be accepted for carriage (**see Packing Instruction [–] 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 item with an A2 or that meets the definition of Special Provision A183 even with a Competent Authority approval, unless specifically pre-approved. Contact the FedEx Dangerous Goods Hotline at 1-901-375-6806 or dghotline@fedex.com. Any battery-powered device subject to a recall will only be accepted if the recall is not safety related and the battery does not have the potential to cause a fire or dangerous evolution of heat.

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. This includes All Packed in One, Overpacks and combination All Packed in One/Overpacks. Exception: Temperature control devices containing Section II lithium batteries that do not require the lithium battery mark according to Packing Instruction 967 or 970 can be shipped with the classes/divisions above; however, the shipper must not select the "Section II lithium batteries/cells" box in the FedEx automation service.

Note: A "lithium battery handling label" reference appears in error in FX-05c in the printed edition of the 2020 IATA Variations. A correction will be made as an addendum to the 2020 IATA Variations.

d) Shippers sending any data loggers, which remain active in flight (other than FedEx SenseAware), must be pre-approved. Contact the FedEx Dangerous Goods/Hazardous Materials hotline at 1-901-375-6806 or dghotline@fedex.com. These approvals are based on the device, manufacturer, and model number; a shipper may request approval of the device on behalf of the manufacturer.

FX-06 Dangerous goods packages that cannot accommodate all of the required Federal Express and regulatory documentation as well as all required regulatory markings and labeling on the top or sides of the outer package, will not be accepted for carriage. Any required documentation, marking and labeling will not be permitted on the bottom of the package. Exception: UN specification markings 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. 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 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:

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 prior to June 1, 2021. 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 www.fedex.com/us; dangerous goods (keyword).*