

FX (Federal Express)

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. Contact 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. Contact your local FedEx customer service number and ask for FedEx Express Freight customer service.
- (b) FedEx Express will only accept explosives assigned to Division 1.4.

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 must be prepared as follows:
- Shipments with an origin and destination within in the USA, including Puerto Rico and U.S. territories: 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
 - Shipments with an origin or destination outside the USA: In a 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” (reference 49 CFR 173.133 for zones) or any Class 2 substance with a toxic primary or subsidiary hazard 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 substance, solid, n.o.s.★ [956, Y956]

UN 3082 — Environmentally hazardous substance, 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 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) 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 meet DOT31FP thermal resistance and flame penetration requirements as prescribed in 49CFR Part 178 Appendix D and E (see USG-18). Packaging must be a UN specification packaging that meets Packing Group I or II performance standards. In addition, outer packages must be marked by the manufacturer with the additional certification mark “DOT31FP”.

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 is met:

- Each outer package's DOT31FP certification mark is visible for inspection by the carrier, or
- The Shipper's Declaration contains the additional compliance statement: "This shipment is prepared in accordance with USG-18 and FX-02(e)", or
- The overpack is marked "DOT31FP compliant".

See Packing Instructions [-] listed after each substance:

**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]

(f) The following dangerous goods may be shipped within the USA and Puerto Rico in accordance with the current edition of Title 49 Code of Federal Regulations (49 CFR):

- Magnetized material;
- Special permit packaging;
- Environmentally hazardous substance, liquid, n.o.s. for nonbulk packages*;
- Environmentally hazardous substance, solid, n.o.s. for nonbulk packages;
- Shipments containing ethyl alcohol in small amounts as defined by 49 CFR 173.150 (g)*;
- Some U.S. Department of Transportation (DOT) special permits that have been approved for air transportation.

* Shipments containing liquids offered under these 49 CFR exceptions must also meet the general packaging provisions in IATA 5.0.2.4.1 and 5.0.2.8.

FX-03

- (a)** Class 7 substances offered on FedEx International Priority Freight (IPF), FedEx International Premium (IP1), or FedEx International Express Freight (IXF) require a pre-alert or pre-approval. Contact +1 877-398-5951 for additional information.
- (b)** 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)** FedEx Express will not accept labelled radioactive material with a subsidiary hazard of 1.4, 2.1, 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.
- (d)** All fissile shipments worldwide require pre-approval. Call +1 901 375 6806 and press "4" to reach the next Dangerous Goods Agent for assistance.
- (e)** 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-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 dangerous goods 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.

- (b) Waste as defined in 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 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) 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.
Examples of small battery-powered vehicles subject to this variation include:

- Hoverboards
- Self-balancing scooters
- Unicycle scooters and one-wheeled personal transport vehicles

FX-05

- (a) 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
- (b) All lithium batteries (Section I, IA, IB and II) in all packing instructions must not be shipped in the same package or overpack 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 the 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.
- (c) 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. 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-06

Dangerous goods packages that cannot accommodate all 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. 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 as permitted by the regulations.

FedEx branded packaging including brown boxes must 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. UN 1845, Carbon dioxide, solid (dry ice) may be shipped in any FedEx Temp Assure dry ice cooled package.

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 hazard or division, 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.

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-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 Express U.S. locations must be processed using a FedEx or third-party automation system, not paper airbills or air waybills.

FX-11 Not used.

FX-12 Not used.

FX-13 Not used.

FX-14 Not used.

FX-15 Not used.

FX-16 Not used.

FX-17 Not used.

FX-18

Shipper's Declarations for dangerous goods for all FedEx Express dangerous goods shipments originating in the US must be prepared using software with dangerous goods compliance edit checks and by one of the following methods:

- FedEx electronic shipping solutions;
- Recognized shipper proprietary software; or
- FedEx recognized dangerous goods vendor software.

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 Express recognized dangerous goods shipping application vendors can be reviewed at: [https://www.fedex.com/us; dangerous goods \(keyword\)](https://www.fedex.com/us; dangerous goods (keyword)).