

## UPS OPERATOR VARIATIONS

### 5X (United Parcel Service)

*Note: The most current information about UPS services and restrictions may be found at the following web site: <https://www.ups.com/us/en/help-center/packaging-and-supplies/special-care-shipments/hazardous-materials.page>*

**5X-01 Small Package Service – U.S. Domestic:** Shipments of Dangerous Goods in the UPS Small Package service with an origin and destination within the USA will be accepted by contract only, in accordance with the current UPS “Hazardous Materials Guide.” Users may locate the UPS Guide for Transporting Hazardous Materials by using the SEARCH function on the website: [www.ups.com](http://www.ups.com) or by entering the following URL: [www.ups.com/hazmat](http://www.ups.com/hazmat).

When shipping packages requiring an IATA Shipper’s Declaration for Dangerous Goods, combination packagings must be used for shipments made under passenger aircraft provisions. Single packagings may only be used for approved “Cargo Aircraft Only” (CAO) shipments. Packages requiring a Shipper’s Declaration must not exceed 30 kg gross weight.

When applicable, not more than three compatible different dangerous goods may be contained in one outer packaging (5.0.2.11).

Shipments of UN3480, Lithium ion batteries and UN3090, Lithium metal batteries are accepted only when prepared under Section IA or IB of the relevant Packing Instruction. Shipments containing UN3090 or UN3480 prepared according to Section II are not accepted. Refer to 5X-08 for pre-approval requirements related to shipments of UN3090.

**5X-02 Small Package Service – Origins or Destinations outside U.S.:** UPS International Small Package service rules and restrictions apply to all dangerous goods shipments with an origin and/or destination outside of the USA. Such shipments will be accepted by contract only (**see 5X-01 above for USA domestic shipments**). Contract Requirements apply to fully regulated dangerous goods as well as dangerous goods not requiring an IATA Shipper’s Declaration for Dangerous Goods, including Biological Substances Category B, Dry Ice and Excepted Quantities. Countries available for service are shown at the following web site: <https://www.ups.com/us/en/help-center/packaging-and-supplies/special-care-shipments/international-dangerous-goods/approved-countries.page>

When shipping packages requiring an IATA Shipper’s Declaration for Dangerous Goods, combination packagings must be used for shipments made under passenger aircraft provisions. Single packagings may only be used for approved “Cargo Aircraft Only” (CAO) shipments. Packages requiring a Shipper’s Declaration must not exceed 30 kg gross weight.

When applicable, not more than three compatible different dangerous goods may be contained in one outer packaging (5.0.2.11).

The following classes/divisions of Dangerous Goods are prohibited from UPS International Small Package service:

- Class 1 (Explosives)
- Division 2.3 (Toxic Gas)
- Substances that require the Keep Away From Heat label, or are subject to Special Provision A136

- Division 4.2 (Spontaneously Combustible)
- Division 4.3 (Dangerous When Wet)
- Division 5.2 (Organic Peroxide)
- Division 6.1—Substances requiring a “Toxic” label other than those assigned to P.G. III, which must display the marking “PGIII” adjacent to the “Toxic” label.  
Shipments of UN3506, Mercury contained in manufactured articles will be accepted only when the packages do not require a “Toxic” subsidiary hazard label.
- Division 6.2 (Infectious Substances, Category A)
- Class 7—Substances requiring a “Radioactive” White–I, Yellow–II, Yellow–III, or Fissile label.  
—Radioactive Material, Excepted Package shipments are also prohibited (except between the U.S. and Canada).
- Class 9—Shipments of UN2807, Magnetized material which conform to Packing Instruction 953 are limited to origins and destinations within the UPS International Dangerous Goods (IDG) network. A listing of origins and destinations authorized for IDG may be found at the following link: <https://www.ups.com/us/en/help-center/packaging-and-supplies/special-care-shipments/international-dangerous-goods/approved-countries.page> Additionally, such shipments must be labelled in accordance with Packing Instruction 953 and documented in one of the following ways:
  - Identified as “Magnetized material” in a Package Reference field on the UPS Shipping Label; or
  - Accompanied by a written document, affixed directly to the outside of the package or contained in a resealable envelope on the package, identifying the contents as “Magnetized material”.
- Shippers may find complete information about UPS Small Package International Dangerous Goods service, including specific limitations per package, posted in our online guide SHIPPING DANGEROUS GOODS GLOBALLY at: <https://www.ups.com/us/en/help-center/packaging-and-supplies/special-care-shipments/global-dangerous-goods.page>
- All permitted Dangerous Goods in Excepted Quantities are accepted. UPS class/division restrictions do not apply to Dangerous Goods in Excepted Quantities. Refer to the link above regarding contract requirements for Excepted Quantities.

Shipments of UN3480, Lithium ion batteries and UN3090, Lithium metal batteries are accepted only when prepared under Section IA or IB of the relevant Packing Instruction. Shipments containing UN3090 or UN3480 prepared according to Section II are not accepted. Refer to 5X-08 for pre-approval requirements related to shipments of UN3090.

**(see 1.3.2, 8.1.6.9.1 and 10.8.3.9.1).**

**5X-03 UPS Air Cargo Service:** Dangerous goods shipments will be accepted in Air Cargo service by contract only. All contract applications must be reviewed by Air Cargo Service (UPS Air Group-SDF). The UPS Air Cargo service accepts specific UN numbers and has approved routes on which dangerous goods can move. Click the below link to view the **Agreement for Transportation of Dangerous Goods, Approved Dangerous Goods Routes, Approved Dangerous Goods** listing and Air Cargo contact information: <https://www.ups.com/aircargo/using/services/services-univDG.html>

Approval to ship UN3090 Lithium Metal Batteries is required. Refer to 5X-08 and the Air Cargo shipper contract for details.

**5X-04 UPS Global Freight Forwarding:** Dangerous Goods shipments in UPS Air Freight Services are accepted by arrangements between UPS Airlines and UPS Supply Chain Solutions. Prohibited hazard classes include:

- Divisions 1.1, 1.2, 1.3, 1.4B, 1.4F, 1.5, and 1.6 (Explosives)
- Division 2.3 Toxic Gases
- Substances that require the Keep Away From Heat label, or are subject to Special Provision A136
- Substances having either a primary or subsidiary hazard of Division 6.1—with a Packing Group I inhalation toxicity
- Division 6.2— (Infectious Substances, Category A)
- Class 7 (outside of the U.S., Canada and Mexico)—substances requiring a “Radioactive” White-I, Yellow-II or Yellow-III label.
  - Materials requiring a Fissile label are not accepted in any UPS service.
  - Radioactive Material, Excepted Package shipments are also prohibited outside the U.S., Mexico and Canada.

Shipments of UN3480, Lithium ion batteries and UN3090, Lithium metal batteries are accepted only when prepared under Section IA or IB of the relevant Packing Instruction. Shipments containing UN3090 or UN3480 prepared according to Section II are not accepted. Refer to 5X-08 for pre-approval requirements related to shipments of UN3090.

**5X-05 General:** When an IATA Shipper's Declaration for Dangerous Goods is required, the shipper must present three original copies.

**5X-06 General:** To maintain compliance with USG-18, for the following listed materials, UPS requires all packages to comply with U.S. DOT packaging requirements contained in 49 CFR 173.302(f) and 173.304(f). Such packagings must be marked with the text “DOT31FP” on the outer package. Affected entries are:

- UN1070 — Nitrous oxide - see 49 CFR 173.304(f)
- UN1072 — Oxygen, compressed - see 49 CFR 173.302(f)
- UN2451 — Nitrogen trifluoride - see 49 CFR 173.302(f)
- UN3156 — Compressed gas, oxidizing, n.o.s. - see 49 CFR 173.302(f)
- UN3157 — Liquefied gas, oxidizing, n.o.s. - see 49 CFR 173.304(f)
- UN3356 — Oxygen generator, chemical - see 49 CFR 173.168
- Carbon dioxide and oxygen mixture, compressed - see 49 CFR 173.304(f)

**5X-07 General:** The following limitations apply to the commodities identified here:

- Shipments of UN3480, Lithium ion batteries and UN3090, Lithium metal batteries are accepted only when prepared under Section IA or IB of the relevant Packing Instruction. Shipments containing UN3090 or UN3480 prepared according to Section II are not accepted. Refer to 5X-08 for pre-approval requirements related to shipments of UN3090.

- To facilitate seamless transport of shipments tendered without an IATA Air Waybill, UPS requires lithium battery packages of UN3481 or UN3091 prepared and marked/labelled in accordance with Section II of the relevant Packing Instruction, be also marked with appropriate information on the address label or adjacent to the mark required by 7.1.5.5, to enable UPS to identify the shipment type when transferring to partner air carriers. For example:
  - P.I. 966-II
  - P.I. 967-II
  - P.I. 969-II
  - P.I. 970-II

Alternatively, such information may be included on a document accessible from the outside of the package. The additional marking applies to packages with an origin or destination outside of the U.S., Alaska, Hawaii and Puerto Rico.

- Shipments of refurbished lithium batteries, or refurbished lithium batteries packed with or contained in equipment are not accepted unless specifically approved by the UPS Air Dangerous Goods Department (SDF); Contact local account representative.
- Shipments of lithium batteries in any UPS air services (including UPS Small Package, UPS Air Freight services or UPS Air Cargo services) which require the use of Special Provisions A88, A99 or A183 are subject to and must receive prior approval from the UPS Air Dangerous Goods Department (SDF); Contact local account representative.
- For UPS Small Package service, shipments of UN3171, **Battery-powered vehicle**, will only be accepted under the following conditions:
  - Passenger aircraft quantities only, not accepted as CAO;
  - Package is limited to a maximum gross weight of 30 kg;
  - For vehicles containing lithium battery or batteries therein that would separately be classified as UN3480 or UN3090. The battery contained in the vehicle is limited to 5 kg maximum net weight;
  - For packages of UN3171 powered by lithium batteries, UPS requires the additional marking, “Contains Lithium Batteries.” The marking must meet the requirements as stated in 7.1.4.4.1 and be near the proper shipping name mark;
  - For vehicles containing a wet, non-spillable battery or batteries therein that would separately be classified as UN2800. The battery contained in the vehicle is limited to 25 kg maximum net weight.
- Shipments of UN3171, **Battery-powered vehicle**, containing defective or damaged batteries are not accepted by UPS.
- Shipments of UN3077, **Environmentally hazardous substance, solid, n.o.s.** will not be accepted when contained in Intermediate Bulk Containers (IBCs) in any UPS air services (including UPS Small Package, UPS Air Freight services or UPS Air Cargo services);
- Shipments of UN2807, **Magnetized materials**, for which the magnetic field strength exceeds 0.00525 gauss when measured at 4.6 m from any surface of the package are not accepted in UPS services (including UPS Small Package; UPS Air Freight services or UPS Air Cargo services);
- Shipments of UN3245, **Genetically modified organisms** or **Genetically modified micro-organisms** with an origin and/or destination outside the U.S. are not accepted in UPS small package services. For UPS Air Freight shipments, case-by-case approval is required to assure the ability to import or transit the shipments within countries involved.

**5X-08 General:** All customers who wish to ship UN3090 Lithium Metal Batteries without equipment via UPS Air services must obtain pre-approval from UPS Airlines. UPS limits transport of UN3090 Lithium Metal Batteries to shipments prepared under Section IA or IB of Packing Instruction 968. This approval is separate and in addition to any other required UPS agreement.

More information regarding the approval program may be found at the following link:

<https://www.ups.com/us/en/help-center/packaging-and-supplies/special-care-shipments/hazardous-materials/lithium-battery-preapproval.page>