

Guidelines for Shipping Excepted Quantities for Flammable Liquids
(PG I, II and III) by air (IATA/ICAO Regulations)

Shipments of flammable liquids may be made according to the Excepted Quantity provisions of the International Air transport Association (IATA) and U.S. Department of Transportation (DOT) regulations. Shipments using this exception shall only be made by a person trained to use the IATA and/or DOT Hazardous Materials Regulations.

Note: Flammable liquids are not permitted in checked luggage, carry-on baggage or airmail.

Packaging

Packaging for excepted quantities of flammable liquids must have three basic components:

1. Inner (primary) packaging, such as a vial, jar, etc. Do not completely fill inner packaging as space for expansion of liquids must be available (i.e., liquids must not completely fill inner packaging at a temperature of 55C/130F). Inner package closures must be held securely in place with tape, wire, metal crimps or other positive means.
2. Intermediate (secondary) packaging, such as a zip lock or similar plastic bag. Intermediate packaging must contain enough absorbent materials to absorb all the contents of the primary container. Absorbent material must be compatible with the material it is protecting.
3. Outer packaging, such as a fibreboard (cardboard) box. Flammable liquids may not be shipped in envelopes, Tyvek sleeves or other non-rigid mailers. The dimensions of the outer box must be at least 100 mm of two of the three sides.

Quantity Limits for excepted flammable liquids

1. Inner packaging may contain no more than of 30 ml of a flammable liquid regardless of PG.
2. Outer packaging. The total amount of flammable material packaged together in the same outer packaging may not exceed 300 ml for PG I flammable liquids, 500 ml for PG II flammable liquids or 1000 ml (1L) for PG III flammable liquids.

Required Documentation

No hazard declaration is required, however the air waybill must be marked user the “Nature and Quantity of Goods” box “***Dangerous Goods in Excepted Quantities***”.

International shipments required additional information. (do we want to get into this?)

Required Labeling and Markings

An Excepted Quantities or Dangerous Goods Label (scan in a label in color), must be filled out and affixed to the outer packaging. Minimum size for this label is 100 x 100 mm (4 x 4 inches) and it must conform to the shape, color, format and text of the label shown below. If the outer package containing excepted quantities is included in an overpack, this label must also be clearly visible or appear on the overpack too.

To complete the label, fill in the shipper information, the hazard class and the applicable UN numbers for the flammable liquids. Be sure you sign the label. A typewritten signature is not acceptable. All entries must be in English and if an alternate language is required, supplemented by an accurate translation or a second label in the alternate language.

Required Training

Shipment made according to this guideline may only be completed by a person who have a record of appropriate training on file with the DRI EH&S office.

Questions on this guideline can be directed to EH&S or NNSC Shipping and Receiving,