

goods, for example lithium batteries, gas cartridges and/or pyrotechnic material, are not subject to these Regulations if the equipment complies with the following:

- (a) the equipment must be equipped with an effective means of preventing accidental activation;
- (b) if the equipment contains an explosive or pyrotechnic substance or an explosive article, this article or substance must be excluded from Class 1 by the appropriate national authority of the State of Manufacture in compliance with 3.1.7.1;
- (c) if the equipment contains lithium cells or batteries, these cells or batteries must comply with the following restrictions:
  1. for a lithium metal cell, the lithium content is not more than 1 g;
  2. for a lithium metal or lithium alloy battery, the aggregate lithium content is not more than 2 g;
  3. for lithium ion cells, the Watt-hour rating is not more than 20 Wh;
  4. for lithium ion batteries, the Watt-hour rating is not more than 100 Wh;
  5. each cell or battery is of the type proven to meet the requirements of each test in the *UN Manual of Tests and Criteria*, Part III, section 38.3;
- (d) if the equipment contains gases to expel dye or ink, only gas cartridges and receptacles, small, containing gas with a capacity not exceeding 50 mL, containing no constituents subject to these Regulations other than a Division 2.2 gas, are allowed. The release of gas must not cause extreme annoyance or discomfort to crew members so as to prevent the correct performance of assigned duties. In case of accidental activation all hazardous effects must be confined within the equipment and must not produce extreme noise.
- (e) security type equipment that is defective or that has been damaged is forbidden for transport.

The words "not restricted" and the special provision number must be included in the description of the substance on the Air Waybill as required by 8.2.6, when an Air Waybill is issued.

**A179** For UN 3077, irrespective of the maximum net quantities specified in Columns J and L of Table 4.2, intermediate bulk containers (IBCs) with a maximum net quantity not exceeding 1,000 kg are permitted in accordance with Packing Instruction 956.

**A180** Non-infectious specimens, such as specimens of mammals, birds, amphibians, reptiles, fish, insects and other invertebrates containing small quantities of UN 1170, UN 1198, UN 1987, or UN 1219 are not subject to these Regulations provided the following packing and marking requirements are met:

- (a) specimens are:
  1. wrapped in paper towel and/or cheesecloth moistened with alcohol or an alcohol solution and then placed in a plastic bag that is heat-sealed. Any free liquid in the bag must not exceed 30 mL; or
  2. placed in vials or other rigid containers with no more than 30 mL of alcohol or an alcohol solution;
- (b) the prepared specimens are then placed in a plastic bag that is then heat-sealed;
- (c) the bagged specimens are then placed inside a another plastic bag with absorbent material then heat sealed;
- (d) the finished bag is then placed in a strong outer packaging with suitable cushioning material;
- (e) the total quantity of flammable liquid per outer packaging must not exceed 1 L; and
- (f) the completed package is marked "scientific research specimens, not restricted Special Provision A180 applies".

The words "not restricted" and the special provision number A180 must be included in the description of the substance on the Air Waybill as required by 8.2.6, when an Air Waybill is issued.

**A181** When a package contains a combination of lithium batteries contained in equipment and lithium batteries packed with equipment, the package must be marked UN 3091 Lithium metal batteries packed with equipment, or UN 3481 Lithium ion batteries packed with equipment as appropriate. If a package contains both lithium ion batteries and lithium metal batteries, the package must be marked as required for both battery types. However, button cell batteries installed in equipment (including circuit boards) need not be considered.

**A182** Equipment containing only lithium batteries must be classified as either UN 3091 or UN 3481.

**A183** Waste batteries and batteries being shipped for recycling or disposal are forbidden from air transport unless approved by the appropriate national authority of the State of Origin and the State of the Operator.

**A184** (304) This entry may only be used for the transport of non-activated batteries which contain dry potassium hydroxide and which are intended to be activated prior to use by the addition of an appropriate amount of water to the individual cells.

**A185** (360) Vehicles only powered by lithium metal batteries or lithium ion batteries must be consigned under the entry UN 3171, **Battery-powered vehicle**.

**A186** (361) This entry applies to electric double layer capacitors with an energy storage capacity greater than 0.3 Wh. Capacitors with an energy storage capacity of 0.3 Wh or less are not subject to these Regulations. Energy storage capacity means the energy held by a capacitor, as calculated using the nominal voltage and