

PURPOSE

Guide to packaging and transportation of biological specimens by road.

P650 PACKAGING INSTRUCTION P650

This packing instruction applies to UN No. 3373 (Diagnostic Specimens).

2. PROCEDURE

2.1 The packaging shall be of good quality, strong enough to withstand the shocks and loadings normally encountered during carriage, including transshipment between vehicles or containers and between vehicles or containers and warehouse as any removal from a pallet or over pack for subsequent manual or mechanical handling. Packaging shall be constructed and closed to prevent any loss of contents that might be caused under normal conditions of carriage by vibration or by changes in temperature, humidity or pressure.

2.2 The packaging shall consist of three components

- a)** A primary receptacle;
- b)** A secondary packaging; and
- c)** An outer packing.

2.3 Primary receptacles shall be packed in secondary packaging in such a way that, under normal conditions of carriage, they cannot break, be punctured or leak their contents into the secondary packaging. Secondary packaging shall be secured in outer packaging with suitable cushioning material. Any leakage of the contents shall not compromise the integrity of the cushioning material or of the outer packaging.

2.4 For carriage, the mark illustrated below shall be displayed on the external surface of the outer packaging on a background of a contrasting colour and shall be clearly visible and legible. The width of the line shall be at least 2 mm; the letters and numbers shall be at least 6 mm high.

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2.5 The completed package shall be capable of successfully passing the drop test. The drop test is to prove that your package can be dropped from a height of 1.2 m without breaking therefore ensuring there is sufficient packaging around it. The smallest external dimension of outer packaging shall be not less than 100 mm.

2.6 For liquid substance:

- a)** The primary receptacle(s) shall be leak proof;
- b)** The secondary packaging shall be leak proof;
- c)** If multiple fragile primary receptacles are placed in a single secondary packaging, they shall be either individually wrapped or separated to prevent contact between them;
- d)** Absorbent material shall be placed between the primary receptacle(s) and the secondary packaging. The absorbent material shall be in quantity sufficient to absorb the entire contents of the primary receptacle(s) so that any release of the liquid substance will not compromise the integrity of the cushioning material or of the outer packaging;
- e)** The primary receptacle or the secondary packaging shall be capable of withstanding, without leakage, an internal pressure of 95 kPa (0.95 bar).

2.7 For solid substances:

- a)** The primary receptacle(s) shall be sift proof;
- b)** The secondary packaging shall be sift proof;
- c)** If multiple fragile primary receptacles are placed in a single secondary packaging, they shall be either individually wrapped or separated to prevent contact between them.

2.8 Refrigerated or frozen specimens: Ice, dry ice and liquid nitrogen

- a)** When dry ice or liquid nitrogen is used to keep specimens cold, all applicable requirements of ADR shall be met. When used, ice or dry ice shall