

4.1.4

List of packing instructions

4.1.4.1

Packing instructions concerning the use of packagings (except IBCs and large packagings)

P001		PACKING INSTRUCTION (LIQUIDS)			P001
The following packagings are authorized provided the general provisions of 4.1.1 and 4.1.3 are met.					
Combination packagings		Maximum capacity/net mass (see 4.1.3.3)			
Inner packagings	Outer packagings	Packing group I	Packing group II	Packing group III	
Glass	10 L	Drums			
Plastics	30 L	steel (1A1, 1A2)	75 kg	400 kg	
Metal	40 L	aluminium (1B1, 1B2)	75 kg	400 kg	
		other metal (1N1, 1N2)	75 kg	400 kg	
		plastics (1H1, 1H2)	75 kg	400 kg	
		plywood (1D)	75 kg	400 kg	
		fibre (1G)	75 kg	400 kg	
		Boxes			
		steel (4A)	75 kg	400 kg	
		aluminium (4B)	75 kg	400 kg	
		other metal (4N)	75 kg	400 kg	
		natural wood (4C1, 4C2)	75 kg	400 kg	
		plywood (4D)	75 kg	400 kg	
		reconstituted wood (4F)	75 kg	400 kg	
		fibreboard (4G)	75 kg	400 kg	
		expanded plastics (4H1)	40 kg	60 kg	
		solid plastics (4H2)	75 kg	400 kg	
		Jerricans			
		steel (3A1, 3A2)	60 kg	120 kg	
		aluminium (3B1, 3B2)	60 kg	120 kg	
		plastics (3H1, 3H2)	30 kg	120 kg	
Single packagings					
Drums					
	steel, non-removable head (1A1)	250 L	450 L	450 L	
	steel, removable head (1A2)	prohibited	250 L	250 L	
	aluminium, non-removable head (1B1)	250 L	450 L	450 L	
	aluminium, removable head (1B2)	prohibited	250 L	250 L	
	other metal, non-removable head (1N1)	250 L	450 L	450 L	
	other metal, removable head (1N2)	prohibited	250 L	250 L	
	plastics, non-removable head (1H1)	250 L*	450 L	450 L	
	plastics, removable head (1H2)	prohibited	250 L	250 L	
Jerricans					
	steel, non-removable head (3A1)	60 L	60 L	60 L	
	steel, removable head (3A2)	prohibited	60 L	60 L	
	aluminium, non-removable head (3B1)	60 L	60 L	60 L	
	aluminium, removable head (3B2)	prohibited	60 L	60 L	
	plastics, non-removable head (3H1)	60 L*	60 L	60 L	
	plastics, removable head (3H2)	prohibited	60 L	60 L	
Composite packagings					
△	Plastics receptacle in steel, aluminium or plastics drum (6HA1, 6HB1, 6HH1)	250 L	250 L	250 L	
△	Plastics receptacle in fibre or plywood drum (6HG1, 6HD1)	120 L*	250 L	250 L	
	Plastics receptacle in steel or aluminium crate or box or plastics receptacle in wood, plywood, fibreboard or solid plastics box (6HA2, 6HB2, 6HC, 6HD2, 6HG2 or 6HH2)	60 L*	60 L	60 L	
	Glass receptacle in steel, aluminium, fibre, plywood, solid plastics or expanded plastics drum (6PA1, 6PB1, 6PG1, 6PD1, 6PH1 or 6PH2) or in a steel, aluminium, wood or fibreboard box or in a wickerwork hamper (6PA2, 6PB2, 6PC, 6PG2 or 6PD2)	60 L	60 L	60 L	
Pressure receptacles, provided that the general provisions of 4.1.3.6 are met					

* Not permitted for class 3, packing group I.

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PACKING INSTRUCTION (LIQUIDS) (continued)

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Special packing provisions:

- PP1 For UN Nos. 1133, 1210, 1263 and 1866 and for adhesives, printing inks, printing ink related materials, paints, paint related materials and resin solutions which are assigned to UN 3082, metal or plastics packagings for substances of packing groups II and III in quantities of 5 L or less per packaging are not required to meet the performance tests in chapter 6.1 when transported:
- (a) in palletized loads, a pallet box or a unit load device, such as individual packagings placed or stacked and secured by strapping, shrink- or stretch-wrapping or other suitable means to a pallet. For sea transport, the palletized loads, pallet boxes or unit load devices shall be firmly packed and secured in closed cargo transport units. On roll-on/roll-off ships the unit loads may be carried in vehicles other than closed vehicles provided they are securely fenced to the full height of the cargo carried; or
 - (b) as an inner packaging of a combination packaging with a maximum net mass of 40 kg.
- PP2 For UN 3065, wooden barrels with a maximum capacity of 250 L and which do not meet the provisions of chapter 6.1 may be used.
- PP4 For UN 1774, packagings shall meet the packing group II performance level.
- PP5 For UN 1204, packagings shall be so constructed that explosion is not possible by reason of increased internal pressure. Gas cylinders and gas receptacles shall not be used for these substances.
- PP10 For UN 1791, for packing group II, the packaging shall be vented.
- PP31 For UN Nos. 1131, 1553, 1693, 1694, 1699, 1701, 2478, 2604, 2785, 3148, 3183, 3184, 3185, 3186, 3187, 3188, 3398 (PG II and III), 3399 (PG II and III), 3413 and 3414, packagings shall be hermetically sealed.
- PP33 For UN 1308, for packing groups I and II, only combination packagings with a maximum gross mass of 75 kg are allowed.
- PP81 For UN 1790 with more than 60% but not more than 85% hydrogen fluoride and UN 2031 with more than 55% nitric acid, the permitted use of plastics drums and jerricans as single packagings shall be two years from their date of manufacture.
- PP93 For UN Nos. 3532 and 3534, packagings shall be designed and constructed to permit the release of gas or vapour to prevent a build-up of pressure that could rupture the packagings in the event of loss of stabilization