



## IATA Dangerous Goods Regulations

46<sup>th</sup> Edition (English)  
Effective 1 January 2005

### ADDENDUM IV Posted 18 August 2005

Users of the IATA Dangerous Goods Regulations are asked to note the following amendments and corrections to the 46<sup>th</sup> Edition, effective from 1 January 2005. This list includes the corrigendum to the 2005-2006 edition of the ICAO Technical Instructions.

Wherever possible, change or amendments to existing text have been highlighted (in yellow - PDF or grey - hardcopy) to help identify the change or amendment.

#### **New or State Variations (Section 2.9.2)**

##### **FRG (France)**

Replace **FRG-06** “Not used.” With the following:

**FRG-06** Category B infectious substances and biological products listed under UN 3373 may only be transported by air to, from or through France under the conditions described below. These do not apply to the non-stop overflight of French territory:

- dangerous goods training as outlined in 1.5.1 is strongly recommended for shippers of Category B infectious substances;
- the proper shipping name, the UN number, and the name, address and telephone number of a responsible person must be indicated on the package;
- the operator must put in place dangerous goods training as outlined in Table 1.5.A for the personnel in charge of the transport by air and the handling of Category B infectious substances, UN 3373;
- the operator must establish procedures so that:
  - the incidents related to Category B infectious substances, UN 3373, are reported to the Competent Authority and handled as Category A infectious substances incidents;
  - the emergency measures to be taken for Category B infectious substances, UN 3373, are expedited as those of Category A infectious substances.

Insert new:

##### **JMG (Jamaica)**

**JMG-01** Applications for approval to transport dangerous goods under special provisions A1, A2 and A109 and exemption applications must be directed to:

The Director General  
Jamaica Civil Aviation Authority  
4 Winchester Road  
Kingston 10  
Jamaica, West Indies

**JMG-02** On shipments to, from, within or transiting through Jamaica, emergency response information, as described in JMG-03, must be provided for all dangerous goods other than magnetized material and dangerous goods for which no Shipper's Declaration is required.

**JMG-03** *Emergency Response Information.* The Shipper's Declaration for Dangerous goods must include a 24-hour emergency response telephone number (including all area codes, and for international

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numbers for locations outside Jamaica, the international access code and country and city codes needed to complete the call from within Jamaica). The number **must** be monitored by an individual who:

1. speaks English fluently;
2. is knowledgeable of the hazards and characteristics of the dangerous good(s) being transported;
3. has comprehensive emergency response and accident mitigation information for the dangerous good(s);
4. has immediate access to a person who possesses such knowledge and information.

**JMG-04** Transport of dangerous goods by air must be in accordance with the current edition of the ICAO *Technical Instructions for the Safe Transport of Dangerous Goods by Air* (Doc 9284). Failure to comply with the Technical Instructions is a violation of the Jamaica Civil Aviation Regulations, 2004.

**Editorial Note:** *The IATA Dangerous Goods Regulations are fully in compliance with ICAO Annex 18 and its associated Technical Instructions.*

#### JPG (Japan)

Amend JPG-25 as follows:

**JPG-25** Not used.

Insert new

#### TRG (Turkey)

**TRG-01** The Authority responsible for Dangerous Goods in Turkey is the Directorate General of Civil Aviation, one of the departments of the Ministry of Transportation:

Directorate General of Civil Aviation  
Bosna Hersek Cad. 90. Sok. No. 5 Emek  
Ankara  
TURKEY

Tel: +90 (312) 215 50 82  
+90 (312) 215 61 72  
+90 (312) 215 73 73  
Fax: +90 (312) 212 46 84  
Comm: CIVIL AIR  
Telex: 44659 CAD TR  
AFTN: LTAYAAT  
SITA: ANKYXYA

**TRG-02** In the following cases applications for diplomatic transit and landing flights authorization shall be made 10 work days before the planned flight:

- aircraft carrying explosives, weapons and ammunition;
- carrying army personnel and staff;
- carrying radioactive materials to/from Turkey.

#### USG (United States)

Amend USG-02 as follows:

**USG-02** In addition to the dangerous goods included in **Subsection 4.2 (List of Dangerous Goods) with the word "Forbidden" shown in columns I and J and K and L and with no A1 or A2 Special Provision indicated**, any material forbidden for transport by the United States' Regulations is also forbidden for transport under any circumstances to, from or within the United States (see 49 CFR 173.21 and the Hazardous Materials Table in 49 CFR 172.101).

Primary (non-rechargeable) lithium batteries and cells, UN 3090, are forbidden for transportation aboard passenger-carrying aircraft. Equipment containing or packed with primary (non-rechargeable) lithium

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batteries and cells, UN 3091, are forbidden from transport aboard passenger carrying aircraft except if they meet the conditions of 49 CFR 172.102, Special Provision A101 or A102. Packages containing primary (non-rechargeable) lithium batteries and cells that meet the exceptions in 49 CFR 173.185(b) or (c) or special provision A45 of these Regulations are forbidden for transport on passenger aircraft and must be marked "PRIMARY LITHIUM BATTERIES-FORBIDDEN FOR TRANSPORT ABOARD PASSENGER AIRCRAFT".

**Notes:**

1. A list of materials forbidden from transport in 49 CFR 172.101 (e.g. spent oxygen generators) is available via the internet at <http://hazmat.dot.gov/icaovar.htm>
2. Dangerous goods that are forbidden on passenger aircraft by 49 CFR 172.101 (Column 9A) are also forbidden on passenger aircraft even when these Regulations permit such carriage. Dangerous goods that are forbidden on cargo aircraft by 49 CFR 172.101 (Column 9B) are also forbidden on cargo aircraft even when these Regulations permit such carriage.

**New or Amended Operator Variations (Section 2.9.4)**

Amend **US (US Airways)**

The following amendments to the **US Airways (US)** variations are effective **1 October 2005**.

**US-01** Dangerous Goods in excepted quantities will not be accepted (see Subsection 2.7).

**US-02** Carbon dioxide, solid (Dry Ice) UN1845 is accepted only as a refrigerant for non-dangerous goods subject to restrictions of 4.4 pounds or less per package (see Packing Instruction 904).

**US-03** Shipments which contain articles in these Regulations and / or DOT Hazardous Materials Regulations and revisions thereto except those listed as not restricted, in said regulations will not be accepted.

**US-04** Not used.

**US-05** Not used.

**US-08** Not used.

**US-09** Not used.

**Section 4**

Pg. 159 – 4.2: ID 8000, **Consumer commodities**, amend columns J and L to read "30 kg G"

Pg. 200 – 4.2: UN 2680, delete **Lithium hydroxide, solid**

Pg. 213 – 4.2: UN 3445, **Nicotine sulphate, solid**, delete Packing Group III data.

Pg. 219 – 4.2: UN 3399, **Organometallic substance, water reactive, flammable ★**, amend to read

UN/ID No. A	Proper Shipping Name/Description B	Class or Div. C	Sub Risk D	Hazard Label(s) E	PG F	Passenger and Cargo Aircraft				Cargo Aircraft Only		S.P. see 4.4 M	ERG Code N
						Ltd Qty		Pkg Inst I	Max Net Qty/Pkg J	Pkg Inst K	Max Net Qty/Pkg L		
						Pkg Inst G	Max Net Qty/Pkg H						
3399	<b>Organometallic substance, water reactive, flammable ★</b>	4.3	3	Dang. when wet & Flamm. liquid	I	—	—	Forbidden	409	1 L	A3	4FW	
					II	—	—	409	1 L	431		5 L	4FW
					III	—	—	431	5 L	432		60 L	4FW



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Pg.301 – 4.4: Special Provision A98, amend as shown:

**A98** Aerosols with a capacity not exceeding 50 mL and with a pressure not exceeding 970 kPa at 55°C, containing no constituents subject to these Regulations other than a Division 2.2 gas, are not subject to these Regulations unless their release could cause extreme annoyance or discomfort to crew members so as to prevent the correct performance of duties.

- 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.

**Section 5**

Pg. 343 – PI Y305: Delete “UN 1153” from 3<sup>rd</sup> last paragraph.

Pg. 351 – PI Y309: Delete “UN 2530” from 3<sup>rd</sup> last paragraph.

Pg. 360 – PI 409: In the Inner Packagings table, add the following entry:

Desc.	Glass Earthen-ware	Metal (not aluminium)	Glass ampoule	PPR (see below)
Spec.	IP1	IP3	IP8	
Unit	L	L	L	
UN 3399	1.0	1.0	0.5	8, 13

Pg. 372 – PI Y416: In the Inner Packagings table, delete entries for UN 2555, UN 2556 & UN 2557.

Pg. 387/8: Add new Packing Instructions 431 and 432 as follows:

**PACKING INSTRUCTION 431**

STATE VARIATIONS: USG-06/13

OPERATOR VARIATIONS: CI-01, CO-04, CS-04, IC-04, LY-04, MX-04, RG-02, TR-03, UX-05, VN-07

This instruction applies to UN 3399 in Packing Group III on passenger aircraft and Packing Group II on CAO.

The General Packing Requirements of Subsection 5.0.2 must be met.

Packagings must meet Packing Group II performance standards.

*Single packagings are not permitted.*

**COMBINATION PACKAGINGS**

**INNER PACKAGINGS**

Desc.	Glass Earthen-ware	Metal (not aluminium)	Glass ampoule	PPR (see below)
Spec.	IP1	IP3	IP8	
Unit	L	L	L	
UN 3399	2.5	2.5	0.5	8, 13

**OUTER PACKAGINGS**

Type	Drums					Jerricans			Boxes						
Desc	Steel	Aluminium	Plywood	Fibre	Plastic	Steel	Aluminium	Plastic	Steel	Aluminium	Wood	Plywood	Reconstituted wood	Fibre-board	Plastic
Spec	1A2	1B2	1D	1G	1H2	3A2	3B2	3H2	4A	4B	4C1 4C2	4D	4F	4G	4H2

**Particular Packing Requirements (PPR)**

8 Only metal cylinders that meet the requirements of PI 200 are permitted.

13 Glass or earthenware inner packagings and glass ampoules must be packed with absorbent material in tightly closed metal or rigid plastic receptacles before packing in outer packagings.



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**PACKING INSTRUCTION 432**

STATE VARIATIONS: USG-06/13

OPERATOR VARIATIONS: CI-01, CO-04, CS-04, IC-04, KA-05, KE-07, LY-04, MX-04, RG-02, SK-04, TK-05, TR-03, UX-05, VN-07

This instruction applies to UN 3399 in Packing Group III on CAO.

The General Packing Requirements of Subsection 5.0.2 must be met.

Packagings must meet Packing Group II performance standards.

*Combination and single packagings are permitted.*

**SINGLE PACKAGINGS** — Compatible cylinders, as permitted by Packing Instruction 200 for gases, must be used.

**COMBINATION PACKAGINGS**

**INNER PACKAGINGS**

Desc.	Glass Earthen-ware	Metal (not aluminium)	Glass ampoule	PPR (see below)
Spec.	IP1	IP3	IP8	
Unit	L	L	L	
UN 3399	5.0	5.0	0.5	8, 13

**OUTER PACKAGINGS**

Type	Drums					Jerricans			Boxes						
	Steel	Aluminium	Plywood	Fibre	Plastic	Steel	Aluminium	Plastic	Steel	Aluminium	Wood	Plywood	Reconstituted wood	Fibre-board	Plastic
Spec	1A2	1B2	1D	1G	1H2	3A2	3B2	3H2	4A	4B	4C1 4C2	4D	4F	4G	4H2

**Particular Packing Requirements (PPR)**

8 Only metal cylinders that meet the requirements of PI 200 are permitted.

13 Glass or earthenware inner packagings and glass ampoules must be packed with absorbent material in tightly closed metal or rigid plastic receptacles before packing in outer packagings.

Pg. 392 – PI 501: In the Inner Packagings table, Amend the entry for UN 1873 as follows:

Desc.	Glass Earthen-ware	Plastic	Metal (not aluminium)	Aluminium	Glass ampoule	PPR (see below)
Spec.	IP1	IP2	IP3	IP3A	IP8	
Unit	L	L	L	L	L	
UN 1873	1.0	<b>F1.0</b>	<b>F1.0</b>	<b>F1.0</b>	<b>0.51.0</b>	13

Pg. 416 – PI 517: In the Inner Packagings table, Add a new entry for UN 1748 after UN 1511 as follows:

Desc.	Glass Earthen-ware	Plastic	Metal (not aluminium)	Plastic bag	Fibre can or box	Glass ampoule	PPR (see below)
Spec.	IP1	IP2	IP3	IP3A	IP6	IP8	
Unit	kg	kg	kg	kg	kg	kg	
<b>UN 1748</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>F</b>	<b>0.5</b>	<b>4</b>

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Pg. 417 – PI Y517: In the Inner Packagings table, Add a new entry for UN 1748 after UN 1511 as follows:

Desc.	Glass Earthen-ware (IP1)	Plastic (IP2)	Metal (not aluminium) (IP3)	Plastic bag (IP3A)	Fibre can or box (IP6)	Glass ampoule (IP8)	PPR (see below)
Unit	kg	kg	kg	kg	kg	kg	
<b>UN 1748</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>F</b>	<b>0.5</b>	<b>4</b>

Pg. 419 – PI 519: In the Inner Packagings table, Add a new entry for UN 1748 after UN 1511 as follows:

Desc.	Glass Earthen-ware	Plastic	Metal (not aluminium)	Plastic bag	Fibre can or box	Glass ampoule	PPR (see below)
Spec.	IP1	IP2	IP3	IP3A	IP6	IP8	
Unit	kg	kg	kg	kg	kg	kg	
<b>UN 1748</b>	<b>5.0</b>	<b>5.0</b>	<b>5.0</b>	<b>5.0</b>	<b>F</b>	<b>0.5</b>	<b>4</b>

Pg. 432 – PI Y609: Delete “**UN 2743**” from 3<sup>rd</sup> last paragraph.

Pg. 501 – PI 903: Amend last line above Outer Packagings table as follows:

~~or~~ and batteries containing one or more such cells, are forbidden for transport.

Pg. 509 – PI 910: Amend paragraph (g) as follows:

(g) Each completed package as prepared for transport must not exceed a gross weight of **25 kg (55 lb)** 30 kg (66 lb).

Pg. 513 – PI 912: 3<sup>rd</sup> paragraph, amend as follows:

Lithium batteries (liquid or solid cathode) contained in equipment must meet all the requirements of Packing Instruction 903 other than those related to packaging, be protected against short circuits and be securely held in place. Cells **with a liquid cathode containing sulphur dioxide, sulphuryl chloride or thionyl chloride** must not be capable of being discharged during transport to the extent that the open circuit voltage is less than the lower of:

- (a) 2 volts; or
- (b) 2/3 of the voltage of the undischarged cell.

**Section 6**

Pg. 544 – Table 6.4.B: UN 3300 **Ethylene oxide and carbon dioxide mixture**, delete “e” in “Particular Packing Provisions” column.

Pg. 544 – Gas Specific Provisions. Amend paragraph “(e)” as shown:

- (e) UN 1040 ~~and UN 3300~~ may also be packed in hermetically sealed glass ampoules (IP.8) or metal inner packagings (IP.3 and IP.3A) suitably cushioned in fibreboard, wooden or metal boxes meeting the Packing Group I performance level. The maximum quantity permitted in any glass inner packaging is 30 g, and the maximum quantity permitted in any metal inner packaging is 200 g. After filling, each inner packaging must be determined to be leak-tight by placing the inner packaging in a hot water bath at a temperature, and for a period of time, sufficient to ensure that an internal pressure equal to the vapour pressure of ethylene oxide at 55°C is achieved. The total quantity in any one outer packaging must not exceed 2.5 kg. When cylinders are used, they must be of the seamless or welded steel types that are equipped with suitable relief devices. Each cylinder must be tested for leakage with an inert gas before each refilling and must be insulated with three coats of heat retardant paint or in an equally efficient manner. The maximum net quantity per cylinder must not exceed 25 kg.