IATA Dangerous Goods Regulations

52nd Edition (English)
Effective 1 January 2011

ADDENDUM
Posted 30 December 2010

Users of the IATA Dangerous Goods Regulations are asked to note the following amendments and corrections to the 52nd Edition, effective from 1 January 2011.

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

New or Amended State Variations (Section 2.8.2)

Amend **SAG (Saudi Arabia)**

Amend SAG-03

SAG-03 Name, address and telephone number of consignee must be written in full on the Air Waybill ~~as well as the package of~~ for dangerous goods to any destination in Saudi Arabia.

Add New SAG-06

SAG-06 Name, address, and telephone number of consignee must be written in full on each package of dangerous goods shipments to any destination in Saudi Arabia.

New or Amended Operator Variations (Section 2.8.4)

Amend **9S (Southern Airlines)**

9S-01 ~~Class 7, Radioactive Materials will not be accepted for carriage outside the USA (see 10.10.2).~~ Not used.

Amend **AA (American Airlines)**

Add new

AA-06 Division 6.2 Category A, infectious substance affecting animals (UN 2900) and humans (UN 2814) will not be accepted for carriage (see PI 620).

New **AB (Air Berlin)**

AB-01 Class 7, Radioactive material, fissile material and excepted packages will Not be accepted on AB Flights (see 10.5.8, 10.5.13)

AB-02 Packages allowed on Cargo Aircraft Only or prepared according to packing instructions for Cargo Aircraft Only (CAO) are not allowed on AB Flights.

Amend **MS (Egyptair)**

MS-01 The transport of dangerous goods on board EGYPTAIR NETWORK must comply with the following:

1. The name, address and telephone number of the shipper/consignee must be written in full on the air waybill and on the package(s).

~~2. The shipper of any dangerous goods must provide a written undertaking to re-ship the consignment at the shipper's cost and risk if the consignment is not cleared, or fully received by the consignee, within fifteen (15) working days from the arrival of the consignment.~~

Amend **OU (Croatia Airlines)**

OU-04 Dangerous goods in Limited Quantities ("Y" packing instructions) will not be accepted for carriage, except for **Consumer commodity** (ID 8000) **(see Subsection 2.7 and all "Y" Packing Instructions)**.

OU-16 Biological substances, Category B UN 3373 (human or animal) will only be accepted ~~if assigned to UN 2814 or UN 2900 as appropriate~~ from approved Croatia Airlines customers. For additional information contact Croatia Airlines Cargo Sales Department.

~~The only exceptions to this variation are:~~

~~• any tissues or organs intended for use in human or animal transplantation;~~

~~• pathogen-free blood or blood components collected for transfusion or for the preparation of blood products to be used for human or animal transfusion or transplantation.~~

~~In these cases, the air waybill must bear a detailed description to enable identification as non regulated material **(see Packing Instruction 620 and 8.2)**.~~

Amend **QT (TAMPA Cargo)**

QT-01 ~~Dangerous goods in excepted quantities will not be accepted for carriage **(see Subsection 2.6)**~~ Not used**.**

Amend **SV (Saudi Arabian Airlines)**

SV-10 ~~Not used.~~ Battery-powered wheelchairs or mobility-aids with spillable batteries will not be accepted on SVA aircraft as checked baggage (see 2.3.2.3 and 9.3.16).

Add new

SV-13 The shipper must provide a 24-hour emergency telephone number of a person / agency who is knowledgeable of the hazards, characteristics and actions to be taken in the case of an accident or incident concerning each of the dangerous goods being transported. This telephone number, including the country and area code, preceded by the words "Emergency Contact" or "24-hour number", must be inserted on the DGD, preferably in the "Handling Information" box, e.g. Emergency Contact +47 67 50 00 00 (see 8.1.6.1 1 and 10.8.3.1 1).

A 24-hour emergency telephone number is not required for shipments that do not require a Shipper's Declaration for Dangerous Goods.

Section 2

Page 30 – Amend 2.7.2.1(g) as shown:

(g) Class 9: Only Dibromodifluoromethane (UN 1941), Benzaldehyde (UN 1990), Ammonium nitrate fertilizers (UN 2071), Environmentally hazardous substance, solid, n.o.s. (UN 3077), Environmentally hazardous substance, liquid, n.o.s. (UN 3082), Chemical kit or First aid kit (UN 3316), Aviation regulated liquid, n.o.s. (UN 3334), Aviation regulated solid, n.o.s. (UN 3335) of Class 9 substances.

Page 31 – Amend 2.7.2.2(j) as shown:

(j) Class 9: Miscellaneous dangerous goods except Dibromodifluoromethane (UN 1941), Benzaldehyde (UN 1990), Ammonium nitrate fertilizers (UN 2071), Environmentally hazardous substance, solid, n.o.s. (UN 3077), Environmentally hazardous substance, liquid, n.o.s. (UN 3082), Chemical kit or First aid kit (UN 3316), Aviation regulated liquid, n.o.s. (UN 3334), Aviation regulated solid, n.o.s. (UN 3335).

Section 3

Page 132 – Amend 3.9.2.4 as shown:

3.9.2.4 Environmentally Hazardous Substances

Environmentally Hazardous substances (aquatic environment) are those that meet the criteria in 2.9.3 of the 15th revised edition of the UN Model Regulations or that meet criteria in national or international regulations established by the appropriate national authority in the State of origin, transit or destination. The detailed classification categories and criteria for environmentally hazardous substances (aquatic environment) as set out in 2.9.3 of the 15th revised edition of the UN Model Regulations can be found at http://www.iata.org/whatwedo/cargo/dangerous_goods/index.htm

Substances or mixtures dangerous to the aquatic environment not presenting a danger covered by other classes, must be assigned to packing group III and designated:

- UN 3077 Environmentally hazardous substance, solid, n.o.s.; or
- UN 3082 Environmentally hazardous substance, liquid, n.o.s.

Section 4

Table 4.2: Revise the entries as shown:

UN/ ID no.	Proper Shipping Name/Description	Class or Div. (Sub Risk)	Hazard Label(s)	PG	EQ see 2.7	Passenger and Cargo Aircraft				Cargo Aircraft Only		S.P. see 4.4	ERG Code
						Ltd Qty							
						Pkg Inst	Max Net Qty/Pkg	Pkg Inst	Max Net Qty/Pkg	Pkg Inst	Max Net Qty/Pkg		
A	B	C	D	E	F	G	H	I	J	K	L	M	N
2071	**Ammonium nitrate fertilizers**	9	Miscellaneous	III	E1	Y958	30 kg G	958	200 kg	958	200 kg	A89 A90	*9L*
1549	**Antimony compound, inorganic, solid, n.o.s.** ★	6.1	Toxic	III	E1	Y645	10 kg	670	100 kg	~~667~~ 677	200 kg	A12	*6L*
3334	**Aviation regulated liquid, n.o.s.** ★ †	9	Miscellaneous	III	E1	Y964	30 kg G	964	100 L	964	220 L	A27	*9A*
3335	**Aviation regulated solid, n.o.s.** ★ †	9	Miscellaneous	III	E1	Y956	30 kg G	956	100 kg	956	200 kg	A27	*9A*
3054	**Cyclohexyl mercaptan**	3	Flamm. liquid	III	E1	Y344	10 L	355	60 L	~~365~~ 366	220 L		*3L*
1597	**Dinitrobenzenes, liquid**	6.1	Toxic	II III	E4 E1	Y641 Y642	1 L 2 L	654 655	5 L 60 L	662 663	60 L ~~200 L~~ 220 L	A3	*6L* *6L*
3450	**Diphenylchloroarsine, solid**	6.1	Toxic	I	E0	Forbidden		Forbidden		673	~~15 kg~~ 50 kg		*6L*
3245	**Genetically modified micro-organisms**	9	~~Miscellaneous~~		E0	Forbidden		959	No Limit	959	No Limit	A47	*9L*
3245	**Genetically modified organisms**	9	~~Miscellaneous~~		E0	Forbidden		959	No Limit	959	No Limit	A47	*9L*
2481	**Ethyl isocyanate**	6.1 (3)				Forbidden		Forbidden		Forbidden		A174	~~*3P*~~ *6F*
2483	**Isopropyl isocyanate**	6.1 (3)				Forbidden		Forbidden		Forbidden		A174	~~*6F*~~ *6H*
3249	**Medicine, solid, toxic, n.o.s.**	6.1		II III	E4 E1	Y644 Y645	1 kg ~~5 kg~~ 10 kg	669 670	25 kg 100 kg	676 677	100 kg 200 kg	A3 A801	*6L* *6L*
3208	**Metallic substance, water-reactive, n.o.s.** ★	4.3	Dang. when wet	I	E0	Forbidden		Forbidden		487	15 kg	A3	*4W*
				II	E2	Y475	5 kg	483	15 kg	489	50 kg		*4W*
				III	E1	~~Y476~~ Y477	10 kg	485	25 kg	491	100 kg		*4W*
3290	**Toxic solid, corrosive, inorganic, n.o.s.** ★	6.1 (8)	Toxic & Corrosive	I	E5	Forbidden		665	1 kg	672	~~25 kg~~ 15 kg	A5	*6C*
				II	E4	Y644	1 kg	668	15 kg	675	50 kg		*6C*
2928	**Toxic solid, corrosive, organic, n.o.s.** ★	6.1 (8)	Toxic & Corrosive	I	E5	Forbidden		665	1 kg	672	~~25 kg~~ 15 kg	A5	*6C*
				II	E4	Y644	1 kg	668	15 kg	675	50 kg		*6C*

Section 5

Page 384 – Revise packing instruction 202 as shown:

(i) Open cryogenic receptacles must bear the following marks permanently affixed e.g. by stamping, engraving or etching:

- the manufacturer's name and address;
- the model number or name;
- the serial or batch number;
- the UN number and proper shipping name of gases for which the receptacle is intended;
- the capacity of the receptacle in litres.

Note:
The marking on open cryogenic receptacles will become mandatory with effect 1 January 2012 for open cryogenic receptacles manufactured after 1 January 2012. The size of the marking must be as set out for cylinders in 6.4.2.7.1. Open cryogenic receptacles manufactured prior to 1 January 2012 are not required to be so marked.

(j) Open cryogenic receptacles are permitted for argon, krypton, neon, nitrogen and xenon refrigerated liquids.

Page 412 – Revise Packing Instruction 377 as shown:

OUTER PACKAGINGS

Type	Drums				Boxes					
Desc.	Steel	Plywood	Fibre	Plastic	Steel	Wood	Plywood	Recon-stituted wood	Fibreboard	Plastic
Spec	1A2	1D	1G	1H2	4A	4C1 4C2	4D	4F	~~4F~~ 4G	4H1 4H2

Page 422 – Revise Packing instruction 454 as shown:

Additional Packing Requirements

- each reel must be placed in a tightly closed metal or strong cardboard or fibreboard inner packaging with a cover held in place by adhesive tape or paper;
- packagings must meet Packing Group II performance standards;
- fibre drums (1G) may only contain 600 m of film.

Single packagings are not permitted.

Page 449 – Revise Packing Instruction 492 as shown:

COMBINATION PACKAGINGS

UN Number		Total quantity per package passenger aircraft	Total quantity per package Cargo Aircraft Only
UN 3292, **Batteries, containing sodium**	Batteries may be offered for transport and transported unpacked or in protective enclosures such as fully enclosed or wooden slatted crates that are not subject to the requirements of Section 6	Forbidden	No limit
UN 3292, **Cells, containing sodium**		25 kg G	~~25 kg~~ No limit

Page 468 – Revise Packing Instruction 565 as shown:

Additional Packing Requirements

Oxygen generator, chemical containing oxidizing substances, including when fitted in associated equipment e.g. passenger service units (PSUs), protective breathing equipment (PBE) etc, must meet all the following conditions:

(a) the generator, without its packaging, must be capable of withstanding a 1.8 m (6 ft) drop test onto a rigid, non-resilient, flat and horizontal surface in the position most likely to cause actuation without loss of its contents and without actuation. For PBE, which are in a vacuum-sealed bag as part of their containment system, this test may be conducted on the PBE in the vacuum-sealed bag;

(b) when a generator is equipped with an actuating device it must have at least two positive means of preventing unintentional actuation ~~For PBE, which are in a vacuum-sealed bag as part of their containment system, the vacuum-sealed bag may be considered the second positive means of preventing unintentional actuation. For oxygen generators, indicative methods of preventing unintentional activation are~~ as follows:

1. mechanically actuated devices:

   (i) two pins, installed so that each is independently capable of preventing the actuator from striking the primer;

   (ii) one pin and one retaining ring, each installed so that each is independently capable of preventing the actuator from striking the primer; or

   (iii) a cover securely installed over the primer and a pin installed so as to prevent the actuator from striking the primer and cover.

2. electrically actuated devices: The electrical leads must be mechanically shorted and the mechanical short must be shielded in metal foil.

3. For PBE:

   (i) a pin so as to prevent the actuator from striking the primer; and

   (ii) placed in protective packaging such as a vacuum-sealed bag.

(c) the generator(s) must be transported in a package which will meet the following requirements when one generator in the package is actuated:

1. other generators in the package will not be actuated,
2. packaging material will not ignite, and
3. the outside surface temperature of the completed package will not exceed 100°C (212°F);

Note:
To enable test (c) (1), (2) and (3) to be conducted on PBE, it is acceptable to break the vacuum-sealed bag to actuate the generator before placing in the package.

Page 497 – Revise Packing Instruction 681 as shown

OUTER PACKAGINGS

Type	Drums				Boxes					
Desc.	Steel	Plywood	Fibre	Plastic	Steel	Wood	Plywood	Recon-stituted wood	Fibreboard	Plastic
Spec	1A2	1D	1G	1H2	4A	4C1 4C2	4D	4F	~~4F~~ 4G	4H1 4H2

Page 518 – Revise Packing Instruction 876 as shown

OUTER PACKAGINGS

Type	Drums				Boxes					
Desc.	Steel	Plywood	Fibre	Plastic	Steel	Wood	Plywood	Recon-stituted wood	Fibreboard	Plastic
Spec	1A2	1D	1G	1H2	4A	4C1 4C2	4D	4F	~~4F~~ 4G	4H1 4H2

Page 519 – PI 950, Revise Note to read:

Note:
Replacements for the dangerous goods permitted in paragraphs ~~(b) and (c)~~ (c) and (d) must not be carried under this packing instruction.

Page 524 – PI 956 Insert FX-06

Page 534 – PI 964 Insert FX-06

Page 535 – PI 964 revise as shown:

COMBINATION PACKAGINGS

Inner Packaging (see 6.1)	Net quantity per inner packaging
Glass	10.0 L
Metal	~~30.0 L~~ 40.0 L
Plastic	~~40.0 L~~ 30.0 L

Page 535 – PI Y964 Insert FX-06

Page 537 – Revise Packing Instruction 965 as shown:

Additional Requirements – Section I

- lithium ion cells and batteries must be placed in inner packagings that completely enclose the cell or battery then placed in an outer packaging. The completed package for the cells or batteries must meet the Packing Group II performance standards;
- lithium batteries with a mass of 12 kg or greater and having a strong, impact-resistant outer casing, or assemblies of such batteries, may be transported when packed in strong outer packagings ~~in~~ or protective enclosures. The packagings need not meet the requirements of Section 6 of these Regulations. The packagings must be approved by the appropriate authority of the State of origin. A copy of the document of approval must accompany the consignment;
- batteries manufactured after 31 December 2011 must be marked with the Watt-hour rating on the outside case.

Page 542 – Revise Packing Instruction 968 as shown:

Additional Requirements – Section I

- lithium metal cells and batteries must be placed in inner packagings that completely enclose the cell or battery then placed in an outer packaging. The completed package for the cells or batteries must meet the Packing Group II performance standards;
- lithium batteries with a mass of 12 kg or greater and having a strong, impact-resistant outer casing, or assemblies of such batteries, may be transported when packed in strong outer packagings ~~in~~ or protective enclosures. The packagings need not meet the requirements of Section 6 of these Regulations. The

packagings must be approved by the appropriate national authority of the State of origin. A copy of the document of approval must accompany the consignment.

Section 7

Page 595 Revise Figure 7.1.A as shown:

FIGURE 7.1.A
Limited Quantities Mark (7.1.5.3)

Name: Limited Quantity
Minimum dimensions: 100 mm × 100 mm
For small packages the dimensions may be reduced to not less than 50 mm x 50 mm provided the marking remains clearly visible
Minimum width of line forming the diamond: 2 mm
The symbol "Y" must be placed in the centre of the mark and must be clearly visible
Top and bottom portions and line must be black, centre area white or suitable contrasting background.

Section 8

Page 620 – 8.1.5 Insert FX-18

Page 632 – In Figure 8.1.I and Figure 8.1.J delete "III" from packing group column for UN 1845, Dry ice

Section 9

Page 644 – Revise 9.3.2.2.5 as shown:

9.3.2.2.5 Explosives of Division 1.4B must not be loaded with other explosives except for Division 1.4S. When loaded on the same aircraft with explosives other than Division 1.4S, Division 1.4B explosives must be loaded into separate unit load devices and when stowed aboard the aircraft, the unit load devices must be separated by other cargo with a minimum separation distance of 2 m. When not loaded in a unit load device Division 1.4B and other explosives must be loaded into different, non-adjacent loading positions and separated by other cargo with a minimum separation distance of 2 m.

Section 10

Page 721 – In Figure 10.8.E delete "III" from packing group column for UN 1845, Carbon dioxide, solid

Appendix A

Page 732 – Revise definition of Cargo as shown:

CARGO For the purposes of these Regulations, any property carried on an aircraft other than mail ~~stores~~ and accompanied or mishandled baggage.

Appendix D.1

Page 770 – Replace the contact details for Canada with the following:

Chief, Airspace Standards and Procedures
Transport Canada
Civil Aviation Directorate
Ottawa, Ontario
Canada K1A 0N8

Tel: +1 (613) 998-9855
Fax: +1 (613) 954-1602
E-mail: ron.carter@tc.gc.ca

Page 772 – Replace the contact details for Finland with the following:

Finnish Transport Safety Agency
Aviation (Finnish CAA)
P.O.Box 320
FI-00101 Helsinki
FINLAND
Tel: +358 (0)20 618 6050
Fax: +358 (0)20 618 500
E-mail: lentotoiminta@trafi.fi
website: www.trafi.fi or www.civilaviationauthority.fi

Appendix F.4

Page 847 – Add new Country and School as follows:

FRANCE

DG Expert
11 rue Voltaire
Ezanville, 95460
FRANCE
Tel: +33 1 39 91 77 13
email: ffillias@dgexpert.fr
Website: www.dgexpert.fr