

## فريق خبراء البضائع الخطرة الاجتماع الرابع والعشرون

مونتريال، ۲۰۱۳/۱۰/۲۸ إلى ۲۰۱۳/۱۱/۸

البند ٣ من جدول الأعمال: إعداد توصيات بإجراء تعديلات على الإضافة الخاصة بالتوجيهات الفنية للنقل الآمن للبضائع الخطرة بطريق الجو (الوثيقة (Doc 9284 SU)) لإدراجها في طبعة ٢٠١٦-٢٠١٥

## مشروع التعديلات على التعليمات الفنية بحيث تتوافق مع توصيات الأمم المتحدة

(مقدمة من الأمينة)

### الملخص

تتضمن ورقة العمل هذه مشروع التعديلات على الإضافة إلى التعليمات الفنية كي تعكس القرارات الصادرة عن لجنة الخبراء المعنية بنقل البضائع الخطرة وبالنظام المنسق عالمياً لتصنيف المواد الكيمائية ووسمها، التابعة للأمم المتحدة، في دورتها السادسة (جنيف، ٢٠١٢/١٢/١٤).

ويرجى من فريق الخبراء أن يوافق على مشروع التعديلات الوارد في ورقة العمل هذه.

# Part S-3 DANGEROUS GOODS LIST, SPECIAL PROVISIONS AND QUANTITY LIMITATIONS

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UN Model Regulations, Chapter 3.2, Dangerous Goods List, ST/SG/AC.10/40/Add.1

								Passenge	er aircraft	Cargo a	aircraft
Name	UN No.	Class or divi- sion	Sub- sidiary risk	State varia- tions	Special provi- sions	UN packing group	Excepted quantity	Packing instruction	Max. net quantity per package	Packing instruction	Max. net quantity per package
1	2	3	4	6	7	8	9	10	11	12	13
Ammonium nitrate with more than 0.2% combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance	0222	1.1D			A226			FORBI	DDEN	FORBI	DDEN

UN Model Regulations, Chapter 3.2, Dangerous Goods List, ST/SG/AC.10/40/Add.1 DGP-WG/13-WP/13 (see paragraph 3.2.17.1 c) of this report)

[Adsorbed gas, flammable, n.o.s.	<u>3510</u>	<u>2.1</u>			<u>E0</u>	[219]	[(5 kg)]	[219]	[150 kg]
Adsorbed gas, toxic, n.o.s.*	<u>3512</u>	<u>2.3</u>			<u>E0</u>	[See	<u>210]</u>	[219]	[150 kg]
Adsorbed gas, toxic, flammable, n.o.s.*	<u>3514</u>	<u>2.3</u>	<u>2.1</u>		<u>E0</u>	<u>[See</u>	210]	[See	210]
Adsorbed gas, toxic, oxidizing, n.o.s.*	<u>3515</u>	<u>2.3</u>	<u>5.1</u>		<u>E0</u>	[See	210]	[See	210]
Adsorbed gas, toxic, corrosive, n.o.s.*	<u>3516</u>	<u>2.3</u>	<u>8</u>		<u>E0</u>	[See	210]	[See	<u>210]</u>
Adsorbed gas, toxic, flammable, corrosive, n.o.s.*	<u>3517</u>	<u>2.3</u>	<u>2.1</u> <u>8</u>		<u>E0</u>	[See	210]	[See	210]
Adsorbed gas, toxic, oxidizing, corrosive, n.o.s.*	<u>3518</u>	<u>2.3</u>	<u>5.1</u> <u>8</u>		<u>E0</u>	[See	210]	[See	210]

## Chapter 6

### SPECIAL PROVISIONS

Table S-3-4. Special Provisions

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UN Model Regulations, Dangerous goods list, SP370, ST/SG/AC.10/40/Add.1

#### A226 (370) This entry applies to:

- ammonium nitrate with more than 0.2% combustible substances, including any organic substance calculated as carbon, to the exclusion of any added substance; and
- ammonium nitrate with not more than 0.2% combustible substances, including any organic substance calculated as carbon, to the exclusion of any added substance, that are not too sensitive for acceptance into Class 1 when tested in accordance with Test Series 2 (see UN Manual of Tests and Criteria, Part I). See also UN No. 1942.

UN Model Regulations, Dangerous goods list, SP374, ST/SG/AC.10/40/Add.1 DGP-WG/13-WP/13 (see paragraph 3.2.17.1 e) of this report)

[ A227 (374) This entry may only be used, as authorized by the competent authority, for packagings, large packagings or intermediate bulk containers (IBC), or parts thereof, which have contained dangerous goods, other than radioactive material, which are transported for disposal, recycling or recovery of their material, other than reconditioning, repair, routine maintenance, remanufacturing or reuse, and which have been emptied to the extent that only residues of dangerous goods adhering to the packaging parts are present when they are handed over for transport.]

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DGP/24-WP/20

## Part S-4

## **PACKING INSTRUCTIONS**

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## **Chapter 3**

## **CLASS 1 — EXPLOSIVES**

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UN Model Regulations, paragraph 4.1.4.1, P116, PP65, ST/SG/AC.10/40/Add.1

116	PACKING INSTRUCT	TION 116 116					
Inner packagings	Intermediate packagings	Outer packagings					
Bags paper, water and oil resistant plastics textile, plastic-coated or lined woven plastics, sift-proof Receptacles fibreboard, water-resistant metal plastics wood, sift-proof Sheets paper, water-resistant paper, waxed plastics	Not necessary	Bags paper, multiwall, water-resistant (5M2) plastics, film (5H4) textile, sift-proof (5L2) textile, water-resistant (5L3) woven plastics (5H1½, 5H2½, 5H3)  Boxes aluminium (4B) fibreboard (4G) natural wood, ordinary (4C1) natural wood, with sift-proof walls (4C2) other metal (4N) plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A)  Drums aluminium (1B1, 1B2) fibre (1G) other metal (1N1, 1N2) plastics (1H1, 1H2) steel (1A1, 1A2)  Jerricans plastics (3H1, 3H2) steel (3A1, 3A2)					
PARTICULAR PACKING REQUIREMENTS OR EXCEPTIONS:							
used as the outer packaging.  — For UN 0082, 0241, 0331 and impervious to liquid.  — For UN 0081, inner packaging ar UN 0331, inner packagings ar	0332, inner packagings are not respectively.  s are not required when contained enot required when bags (5H2), (5 used only for UN 0082, 0241, 033	t necessary if leakproof, removable head drums are equired when the explosive is contained in a material in rigid plastic which is impervious to nitric esters. 5H3) or (5H4) are used as outer packagings. 1 and 0332.					

UN Model Regulations, P208, ST/SG/AC.10/40/Add.1 See also paragraphs 3.2.17.1 c) and 3.2.29.1 c) of this report.

### 210

### **PACKING INSTRUCTION 210**

210

The general packing requirements of Part 4, Chapter 1 of the Technical Instructions must be met.

Small quantities of gases in Division 2.3, including mixtures of gases, may be carried in an aircraft under the following conditions:

1. The maximum quantity of gas permitted per package must be determined using the following formula:

Permitted mass  $\leq 10^{-3}$  (RMM) (LC<sub>50</sub>)

where:

RMM = relative molecular mass

LC<sub>50</sub> expressed in mL/m<sup>3</sup> as defined in Part 2, Chapter 6 of the Technical Instructions

Permitted mass expressed in grams.

For mixtures of toxic gases, where the  $LC_{50}$  of the mixture or its mass per unit volume at NTP are unknown, the following formula shall be used to determine the permitted mass of the mixture:

$$\frac{\text{mass of component 1}}{10^{\text{-3}} \, (\text{RMM})_1 (\text{LC}_{50})_1} \ + \ \frac{\text{mass of component 2}}{10^{\text{-3}} \, (\text{RMM})_2 (\text{LC}_{50})_2} \ + \ \frac{\text{mass of component } n}{10^{\text{-3}} \, (\text{RMM})_n (\text{LC}_{50})_n} \ \le \ 1$$

where:

NTP is normal temperature and pressure (RMM) = relative molecular mass of component 1 ... n

This latter formula makes no allowance for any synergistic effect of the mixture and it should not be used where the toxic effects are other than additive.

2. The gas must be contained in a gas cylinder which meets the requirements of Packing Instruction 200, [Packing Instruction 219 for adsorbed gases] or an IP.8 glass ampoule, provided it is compatible with the gas.

The maximum quantity of gas permitted in a glass ampoule is determined by the above formula but is further limited to not more than 100 g.

- 3. The glass ampoule or gas cylinder must be tightly packed as to prevent movement in an outer metal pressure vessel containing inert absorbent and cushioning material. The outer metal pressure vessels must be designed to contain the total quantity of gas in case of leakage of the ampoule or cylinder. The outer metal pressure vessel must meet the requirements of Packing Instruction 200. Special care must be taken to prevent corrosion of the inner wall of the outer metal pressure vessels.
- 4. The outer metal pressure vessel must be tightly packed, so as to prevent movement, in a strong outside packaging.

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