



**WORKING PAPER**

**DANGEROUS GOODS PANEL (DGP)**

**TWENTY-FIRST MEETING**

**Montréal, 5 to 16 November 2007**

**Agenda Item 2: Development of recommendations for amendments to the *Technical Instructions for the Safe Transport of Dangerous Goods by Air* (Doc 9284) for incorporation in the 2009-2010 Edition**

**CLASS 9 SUBSTANCES — MAXIMUM QUANTITIES PER PACKAGE**

(Presented by D. Brennan)

**SUMMARY**

This paper proposes a review and standardization of the maximum net quantity permitted per package for certain Class 9 substances.

Action by the DGP is in paragraph 2.

**1. INTRODUCTION**

1.1 During the reformatting of the packing instructions it was identified that there are a number of substances in Class 9, where it is proposed that they be assigned to the same group of packing instructions, but the substances have very different maximum net quantities per package.

1.2 The maximum net quantities for these substances range from 100 kg / 100 L to No limit for passenger aircraft and 200 kg / 220 L to No limit for CAO.

1.3 The substances concerned are: UN 1841 — **Acetaldehyde ammonia**, UN 1931 — **Zinc dithionite** or **Zinc hydrosulphite**, UN 1941 — **Dibromodifluoromethane**, UN 1990 — **Benzaldehyde**, UN 2315 — **Polychlorinated biphenyls, liquid**, UN 3432 — **Polychlorinated biphenyls, solid**, UN 2969 — **Castor beans, Castor flake, Castor meal** or **Castor pomace**, UN 3151 — **Polyhalogenated biphenyls, liquid** or **Polyhalogenated terphenyls, liquid**, UN 3152 — **Polyhalogenated biphenyls, solid** or **Polyhalogenated terphenyls, solid**, UN 3334 — **Aviation regulated liquid, n.o.s.** and UN 3335 — **Aviation regulated solid, n.o.s.**

1.4 It is suggested that all of these substances should have a standard maximum net quantity per package, which should be 400 kg for solids and 450 L for liquids for both passenger aircraft and CAO. These values being the maximum permitted for packagings.

1.5 It should be noted that the panel amended the maximum net quantity for UN 3077 **Environmentally hazardous substance, solid, n.o.s.** and UN 3082 **Environmentally hazardous substance, liquid, n.o.s.**, from “No limit” to be 400 kg / 450 L at DGP/20 as reflected in the 2007-2008 edition of the Technical Instructions. This amendment was made on the basis that for air transport dangerous goods are not permitted in intermediate bulk containers and therefore a de facto limit applies, being the maximum allowed for packagings.

## 2. ACTION BY THE DGP

2.1 The DGP is invited to *amend* the entries in Table 3-1 for the applicable UN numbers as shown::

Name	UN No.	Class or division	Subsidiary risk	Labels	State variations	Special provisions	UN packing group	Passenger aircraft		Cargo aircraft	
								Packing instruction	Max. net quantity per package	Packing instruction	Max. net quantity per package
1	2	3	4	5	6	7	8	9	10	11	12
Acetaldehyde ammonia	1841	9		Miscellaneous		A48	III	906	200 kg 400 kg	906	200 kg 400 kg
Aviation regulated liquid, n.o.s. *	3334	9		Miscellaneous		A27 A48	III	906	No limit 400 kg	906	No limit 400 kg
Aviation regulated solid, n.o.s. *	3335	9		Miscellaneous		A27 A48	III	906	No limit 450 L	906	No limit 450 L
Benzaldehyde	1990	9		Miscellaneous			III	907 Y907	100 L 450 L 30 kg G	907	220 L 450 L
Castor beans	2969	9		Miscellaneous		A31 A48	II	906	No limit 400 kg	906	No limit 400 kg
Castor flake	2969	9		Miscellaneous		A31 A48	II	906	No limit 400 kg	906	No limit 400 kg
Castor meal	2969	9		Miscellaneous		A31 A48	II	906	No limit 400 kg	906	No limit 400 kg
Castor pomace	2969	9		Miscellaneous		A31 A48	II	906	No limit 400 kg	906	No limit 400 kg
Dibromodifluoromethane	1941	9		Miscellaneous			III	907 Y907	100 L 450 L 30 kg G	907	220 L 450 L
Polychlorinated biphenyls, liquid	2315	9		Miscellaneous	US4	A11	II	907	100 L 450 L	907	220 L 450 L
Polychlorinated biphenyls, solid	3432	9		Miscellaneous	US4	A11	II	911	100 kg 400 kg	906	200 kg 400 kg
Polyhalogenated biphenyls, liquid	3151	9		Miscellaneous		A11 A95	II	907	100 L 450 L	907	220 L 450 L
Polyhalogenated biphenyls, solid	3152	9		Miscellaneous		A11 A95	II	911	100 kg 400 kg	906	200 kg 400 kg
Polyhalogenated terphenyls, liquid	3151	9		Miscellaneous		A11 A95	II	907	100 L 450 L	907	220 L 450 L
Polyhalogenated terphenyls, solid	3152	9		Miscellaneous		A11 A95	II	911	100 kg 400 kg	906	200 kg 400 kg
Zinc dithionite	1931	9		Miscellaneous		A48	III	906	100 kg 400 kg	906	200 kg 400 kg
Zinc hydrosulphite	1931	9		Miscellaneous		A48	III	906	100 kg 400 kg	906	200 kg 400 kg