



**WORKING PAPER**

**DANGEROUS GOODS PANEL (DGP)**

**TWENTY-SIXTH MEETING**

**Montréal, 16 to 27 October 2017**

**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 2019-2020 Edition**

**AEROSOLS**

(Presented by P. Tatin)

**SUMMARY**

Aerosols are assigned to the same UN number (1950), despite the fact that they can be of different classes or divisions, with or without subsidiary risk(s).

This identification by a unique UN number could be a source of confusion and it could be a safety concern.

This issue could be addressed by assigning a different UN number to each group of aerosols which have the same class or division, and, when applicable, subsidiary risk(s).

**Action by the DGP:** The DGP is invited to discuss the views expressed in this paper and to consider whether the issue should be raised to the UN Sub-Committee

**1. INTRODUCTION**

1.1 Aerosols are assigned to the same UN number in the Technical Instructions, i.e UN 1950, although they could be of different classes or divisions, with or without subsidiary risks.

1.2 As an example, UN 1950 applies to:

Name	Class or Division
<b>Aerosols, flammable</b>	2.1
<b>Aerosols, flammable, containing substances in Division 6.1, Packing</b>	2.1 & 6.1

Group II	
<b>Aerosols</b> , flammable, containing substances in Division 6.1, Packing Group III and substances in Class 8, Packing Group III	2.1 & 6.1 & 8
<b>Aerosols</b> , flammable, containing toxic gas	2.1 & 2.3
<b>Aerosols</b> , flammable, corrosive, containing substances in Class 8, Packing Group II	2.1 & 8
<b>Aerosols</b> , flammable, corrosive, containing substances in Class 8, Packing Group III	2.1 & 8
<b>Aerosols</b> , flammable (engine starting fluid)	2.1
<b>Aerosols</b> , flammable, toxic, containing substances in Division 6.1, Packing Group III	2.1 & 6.1
<b>Aerosols</b> , non-flammable	2.2
<b>Aerosols</b> , non-flammable, containing substances in Class 8, Packing Group II	2.2 & 8
<b>Aerosols</b> , non-flammable, containing substances in Division 6.1, Packing Group III and substances in Class 8, Packing Group III	2.2 & 6.1 & 8
<b>Aerosols</b> , non-flammable, containing substances in Division 6.1, Packing Group II (other than tear gas devices)	2.2 & 6.1
<b>Aerosols</b> , non-flammable, containing toxic gas	2.3
<b>Aerosols</b> , non-flammable, corrosive, containing substances in Class 8, Packing Group III	2.2 & 8
<b>Aerosols</b> , non-flammable (tear gas devices)	2.2 & 6.1
<b>Aerosols</b> , non-flammable, toxic, containing substances in Division 6.1, Packing Group III	2.2 & 6.1
<b>Aerosols</b> , oxidizing	2.2 & 5.1

1.3 Several proper shipping names assigned to a unique UN number could be a source of confusion. A solution could be to assign a unique UN number to each group of aerosols which have the same class or division, and, when applicable, the same subsidiary risk(s).

1.4 As an example:

Name	UN number	Class or Division
<b>Aerosols</b> , flammable <i>or</i> <b>Aerosols</b> , flammable (engine starting fluid)	35xx	2.1
<b>Aerosols</b> , flammable, containing substances in Division 6.1, Packing Group II <i>or</i> <b>Aerosols</b> , flammable, toxic, containing substances in Division 6.1, Packing Group III	35xx	2.1 & 6.1
<b>Aerosols</b> , flammable, containing substances in Division 6.1, Packing Group III and substances in Class 8, Packing Group III	35xx	2.1 & 6.1 & 8
<b>Aerosols</b> , flammable, containing toxic gas	35xx	2.1 & 2.3
<b>Aerosols</b> , flammable, corrosive, containing substances in Class 8, Packing Group II <i>or</i> <b>Aerosols</b> , flammable, corrosive, containing substances in Class 8, Packing Group III	35xx	2.1 & 8
<b>Aerosols</b> , non-flammable	35xx	2.2
<b>Aerosols</b> , non-flammable, containing toxic gas	35xx	2.3

<b>Aerosols</b> , non-flammable, containing substances in Class 8, Packing Group II <i>or</i> <b>Aerosols</b> , non-flammable, corrosive, containing substances in Class 8, Packing Group III	35xx	2.2 & 8
<b>Aerosols</b> , non-flammable, containing substances in Division 6.1, Packing Group II (other than tear gas devices) <i>or</i> <b>Aerosols</b> , non-flammable (tear gas devices) <i>or</i> <b>Aerosols</b> , non-flammable, toxic, containing substances in Division 6.1, Packing Group III	35xx	2.2 & 6.1
<b>Aerosols</b> , non-flammable, containing substances in Division 6.1, Packing Group III and substances in Class 8, Packing Group III	35xx	2.2 & 6.1 & 8
<b>Aerosols</b> , oxidizing	35xx	2.2 & 5.1

2. **ACTION BY THE DGP**

2.1 The DGP is invited to discuss the issue expressed in this paper and consider whether the issue should be raised to the UN Sub-Committee.

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