International Civil Aviation Organization

WORKING PAPER

DGP-WG/05-WP/14
4/3/05

DANGEROUS GOODS PANEL (DGP)

MEETING OF THE WORKING GROUP OF THE WHOLE

Montreal, 18 to 22 April 2005

Agenda Item 2: Development of recommendations for amendments to the *Technical Instructions* for incorporation in the 2007/2008 edition
2.3: Part 3 — Dangerous Goods List and Limited Quantities Exceptions

SPECIAL PROVISION A20 VS. SPECIAL PROVISION A136

(Presented by J. Abouchaar)

1. INTRODUCTION

1.1 The Technical Instructions has for some time included Special Provision A20 against self-reactive substances in Division 4.1 and Division 5.2 - Organic peroxides, which states:

> A20 During the course of transport this substance must be protected from direct sunshine and stored in a cool and well ventilated place, away from all sources of heat. A statement to this effect must be included in the Dangerous Goods Transport Document.

1.2 Packages containing these substances are also required to bear a "Keep Away From Heat" handling label as set out in 5;3.2.11 d).

1.3 The UN Model Regulations do not have a special provision equivalent to Special Provision A20 for self-reactive substances of Division 4.1 or Division 5.2 - organic peroxides. The UN does however include special provisions in Part 7 - Transport Operations that requires self-reactive substances and organic peroxides to be "protected from direct sunlight and all sources of heat and be placed in adequately ventilated areas."

1.4 The 2005-2006 edition of the Technical Instructions added a number of new special provisions based on changes to the 13th edition of the UN Model Regulations. Among those was Special Provision A136, which applies to UN 1748 - **Calcium hypochlorite, dry**, UN 2208 - **Calcium hypochlorite mixture, dry** with more than 10% but not more than 39% available chlorine, UN 2880 - **Calcium hypochlorite, hydrated** with not less than 5.5% but not more than 16% water and UN 2880 - **Calcium hypochlorite, hydrated mixture** with not less than 5.5% but not more than 16% water. Special Provision A136 states:

A136 a) These substances are liable to exothermic decomposition at elevated temperatures. Decomposition can be initiated by heat or by impurities (e.g. powdered metals (iron, manganese, cobalt, magnesium) and their compounds).

b) During the course of transport, these substances must be shaded from direct sunlight and all sources of heat and be placed in adequately ventilated areas.

1.5 As can been seen the wording of A20 and A136 is very similar, but not identical

2. PROPOSAL

2.1 Align the wording of A20 to be the same as that in A136 b). A20 would then read as follows:

A20 During the course of transport this substance must be protected from direct ~~sunshine~~ sunlight and all sources of heat ~~stored in a cool~~ and be placed in ~~well~~ adequately ventilated areas~~place, away from all sources of heat~~. A statement to this effect must be included in the Dangerous Goods Transport Document.

2.2 There would also be a consequential amendment to 5;4.1.5.8.3 as follows:

4.1.5.8.3 When self-reactive substances of Division 4.1, or other substances having similar properties, are offered for transport, the shipper must indicate on the dangerous goods transport document that the packages containing such substances must be protected from direct ~~sunshine~~ sunlight and all sources of heat ~~stored in a cool~~ and be placed in ~~well~~ adequately ventilated areas~~place, away from all sources of heat~~.

2.3 The Panel is asked to consider if substances to which Special Provision A136 applies should also be subject to the same requirements as those to which A20 applies and therefore have a statement included on the dangerous goods transport document and also be required to bear the Keep Away From Heat label.

2.4 If the Panel supports that position then A136 will need to be modified as follows:

A136 a) These substances are liable to exothermic decomposition at elevated temperatures. Decomposition can be initiated by heat or by impurities (e.g. powdered metals (iron, manganese, cobalt, magnesium) and their compounds).

b) During the course of transport, these substances must be shaded from direct sunlight and all sources of heat and be placed in adequately ventilated areas. A statement to this effect must be included in the Dangerous Goods Transport Document.

2.5 If A136 is modified then there would also be a consequential amendment to 5;3.2.11 c) as follows:

c) for packages containing self-reactive substances of Division 4.1, or Division 5.2 organic peroxides, or substances to which Special Provision A136 applies the "Keep away from heat" label (Figure 5-27) must be affixed on all packages. This label should be affixed on the same surface of the package near the hazard label(s).

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