



**DANGEROUS GOODS PANEL (DGP)
MEETING OF THE WORKING GROUP OF THE WHOLE**

Montréal, 15 to 19 April 2013

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 2015-2016 Edition

2.3 : Part 3 — Dangerous Goods List, Special Provisions and Limited and Excepted Quantities

**KEEP AWAY FROM HEAT LABEL
FOR SUBSTANCES ASSIGNED SPECIAL PROVISION A136**

(Presented by B. Carrara)

REVISED

SUMMARY

This paper proposes an amendment to Special Provision A136 or an inclusion of a new special provision.

Action by the DGP-WG is in paragraph 2.

1. INTRODUCTION

1.1 Part 3;3, Table 3-2 lists the special provisions referred to in column 7 of Table 3-1. Special Provision A20 specifies that during the course of transport the substances assigned to this special provision must be protected from direct sunlight and all sources of heat and be placed in an adequately ventilated area. It also requires that a statement to this effect be included on the dangerous goods transport document. Substances assigned to this special provision are self-reactive substances of Division 4.1 or organic peroxides of Division 5.2.

1.2 Part 5;3.2.12 d) specifies that in addition to the class hazard labels required for substances listed in the dangerous goods list (Table 3-1), the “Keep away from heat” handling label must also be affixed to packages containing self-reactive substances of Division 4.1 or Division 5.2 organic peroxides.

1.3 Special Provision A136, which is equivalent to Special Provision 314 of the UN *Model Regulations*, specifies that the substances assigned to this special provision are liable to exothermic decomposition at elevated temperatures and decomposition can be initiated by heat or by impurities. It also specifies that 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. Substances assigned to this special provision are solid oxidizing substances of Division 5.1.

1.4 However, there is no information in Special Provision A136 or in Part 5;3 that packages containing these substances must have a “Keep away from heat” handling label affixed to packages which would indicate the precaution to be taken to these packages during handling or storing. There is also no requirement for a statement to this precaution to be included on the dangerous goods transport document.

2. ACTION BY THE DGP-WG

2.1 The DGP-WG is invited to add information in Special Provision A136 or if the working group believes that Special Provision A136 should not be amended as it is equivalent to Special Provision 314 of the UN *Model Regulations*, a new Special Provision which specifies the need for a handling labelling requirement for substances assigned to Special Provision A136, and that the dangerous goods transport document must have a statement to this effect. The proposals are presented in the appendix to this working paper.

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APPENDIX

PROPOSED AMENDMENTS TO PART 3 OF THE TECHNICAL INSTRUCTIONS

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Part 3

DANGEROUS GOODS LIST,
SPECIAL PROVISIONS AND
LIMITED AND EXCEPTED QUANTITIES

...

Chapter 3

SPECIAL PROVISIONS

...

Proposal 1:

Table 3-2. Special provisions

<i>TIs</i>	<i>UN</i>	
...	...	
A136	(314)	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. <u>A statement to this effect must be included on the dangerous goods transport document</u>
		c) <u>The "Keep away from heat" label (Figure 5-29) must be affixed on all packages. This label should be affixed on the same surface of the package near the hazard label(s);</u>
...	...	
...		

Proposal 2:

...

Table 3-2. Special provisions

TIs	UN
...	...
<u>AXXX</u>	The "Keep away from heat" label (Figure 5-29) must be affixed on all packages assigned to this special provision. This label should be affixed on the same surface of the package near the hazard label(s). A statement to this precaution must be included on the dangerous goods transport document.
...	...
...	...

Table 3-1. Dangerous Goods List

Name	UN No.	Class or division	Subsidiary risk	Labels	State variations	Special provisions	UN packing group	Excepted quantity	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	13
Calcium hypochlorite, dry	1748	5.1		Oxidizer	US4	A136 <u>AXXX</u>	II III	E2 E1	558 Y544 559 Y546	5KG 2.5KG 25KG 10KG	562 563	25KG 100KG
Calcium hypochlorite, dry, corrosive with more than 39% available chlorine (8.8% available oxygen)	3485	5.1	8	Oxidizer & Corrosive		A136 <u>AXXX</u>	II	E2	558 Y544	5KG 2.5KG	562	25KG
Calcium hypochlorite, hydrated with not less than 5.5% but not more than 16% water	2880	5.1		Oxidizer	US 4	A3 A8 A136 <u>AXXX</u>	II III	E2 E1	558 Y544 559 Y546	5KG 2.5KG 25KG 10KG	562 563	25KG 100KG
Calcium hypochlorite, hydrated, corrosive with not less than 5.5% but not more than 16% water	3487	5.1	8	Oxidizer & Corrosive		A8 A136 <u>AXXX</u>	II III	E2 E1	558 Y544 559 Y545	5KG 2.5KG 25KG 5KG	562 563	25KG 100KG
Calcium hypochlorite, hydrated mixture with not less than 5.5% but not more than 16% water	2880	5.1		Oxidizer	US 4	A3 A8 A136 <u>AXXX</u>	II III	E2 E1	558 Y544 559 Y546	5KG 2.5KG 25KG 10KG	562 563	25KG 100KG
Calcium hypochlorite, hydrated mixture, corrosive with	3487	5.1	8	Oxidizer & Corrosive		A8 A136 <u>AXXX</u>	II III	E2 E1	558 Y544 559	5KG 2.5KG 25KG	562 563	25KG 100KG

A-3

not less than 5.5% but not more than 16% water									Y545	5KG		
Calcium hypochlorite mixture, dry with more than 10% but not more than 39% available chlorine	2208	5.1		Oxidizer	US 4	A136 AXXX	III	E1	559 Y546	25KG 10KG	563	100KG
Calcium hypochlorite mixture, dry, corrosive with more than 39% available chlorine (8.8% available oxygen)	3485	5.1	8	Oxidizer & Corrosive		A136 AXXX	II	E2	558 Y544	5KG 2.5KG	562	25KG
Calcium hypochlorite mixture, dry, corrosive with more than 10% but not more than 39% available chlorine	3486	5.1	8	Oxidizer & Corrosive		A136 AXXX	III	E1	559 Y545	25KG 5KG	563	100KG

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