



WORKING PAPER

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

Montréal, 15 to 19 October 2012

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

**UN 2796 SULPHURIC ACID WITH NOT MORE THAN 51% ACID AND
UN 1790 HYDROFLUORIC ACID NOT MORE THAN 60% STRENGTH**

(Presented by Q. Xu)

SUMMARY

This paper proposes to revise the content of UN 2796 Sulphuric acid (Sulphuric acid with not more than 51% acid and UN 1790 Hydrofluoric acid (Hydrofluoric acid not more than 60% strength) in Table 3.1, which will make it more practical in action.

Action by the DGP-WG is in paragraph 2.

1. INTRODUCTION

1.1 **Sulphuric acid** with not more than 51% acid (UN 2796) is classified as Class 8, Packing Group II and **Hydrofluoric acid**, not more than 60% strength (UN 1790) is classified as Class 8, Subsidiary Risk 6.1, Packing Group II. These do not specify the lowest limit of the concentrations.

1.2 Apparently, Packing Group II is not applicable for these substances when in very limited concentrations (i.e. according to the classification, labelling and packaging (CLP) regulations of EU: sulphuric acid with not more than 15% and hydrofluoric acid not more than 1% are considered not to have skin corrosion hazard; particularly, for the case of hydrofluoric acid, the toxic problem should be taken into consideration even it's under very low concentration). Accordingly, classifying UN 2796 as Class 8 and UN 1790 as Class 8, Subsidiary Risk 6.1 is also not applicable. It is therefore necessary to make a clarification herein.

1.3 It is suggested that Special Provision A3 (reproduced below for ease of reference) be assigned to UN 2796 and UN 1790.

A3 (223) If the chemical or physical properties of a substance covered by this description are such that, when tested, it does not meet the established defining criteria for the class or division listed in column 3, or any other class or division, it is not subject to these Instructions.

2. ACTION BY THE DGP-WG

2.1 The DGP-WG is invited to amend Table 3-1 as shown in the appendix to this working paper.

APPENDIX

PROPOSED AMENDMENT TO THE TECHNICAL INSTRUCTIONS

Part 3

DANGEROUS GOODS LIST,
SPECIAL PROVISIONS AND
LIMITED AND EXCEPTED QUANTITIES

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Chapter 2

ARRANGEMENT OF THE
DANGEROUS GOODS LIST (TABLE 3-1)

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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
Sulphuric acid with not more than 51% acid	2796	8		Corrosive		A3	II	E2	851 Y840	1 L 0.5 L	855	30 L
Hydrofluoric acid , not more than 60% strength	1790	8	6.1	Corrosive & Toxic		A3	II	E2	851 Y840	1 L 0.5 L	855	30 L

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