



WORKING PAPER

DANGEROUS GOODS PANEL (DGP)

TWENTY-EIGHTH MEETING

Virtual, 15 to 19 November 2021

Agenda Item 2: Managing air-specific safety risks and identifying anomalies (Ref: REC A DGS 2023)

2.2: Develop proposals, if necessary, for amendments to the Technical Instructions for the Safe Transport of Dangerous Goods by Air (Doc 9284) for incorporation in the 2023-2024 Edition

**PROPOSAL TO ADD SPECIAL PROVISION A4 TO THE ENTRY UN2922 AND A5 TO UN2923
IN TABLE 3-1**

(Presented by P. Guo)

SUMMARY

This working paper proposes to add Special Provision A4 to the entry UN 2922 — **Corrosive liquid, toxic, n.o.s.** and to add Special Provision A5 to the entry UN 2923 — **Corrosive solid, toxic, n.o.s.** in Table 3-1 of the Technical Instructions.

The DGP is invited to review the proposed amendments to the entries UN 2922 — **Corrosive liquid, toxic, n.o.s.** and UN 2923 — **Corrosive solid, toxic, n.o.s.** in Table 3-1 and to recommend their inclusion in the 2023-2024 Edition of the Technical Instructions.

Action by the DGP: The DGP is invited to consider the proposed inclusion of Special Provision A4 in Column 7 for the entry UN 2922 — **Corrosive liquid, toxic, n.o.s.** and Special Provision A5 in Column 7 for the entry UN 2923 — **Corrosive solid, toxic, n.o.s.** in Table 3-1.

1. INTRODUCTION

1.1 To deal with liquids and solids with a Packing Group I inhalation toxicity, Special Provisions A4 and A5 in the Technical Instructions states:

A4 Liquids having a vapour inhalation toxicity of Packing Group I are forbidden on both passenger and cargo aircraft.

Liquids having a mist inhalation toxicity of Packing Group I are forbidden on a passenger aircraft. They may be carried on cargo aircraft providing they are

packed in accordance with the packing instructions for the Packing Group I substance and the maximum net quantity per package does not exceed 5 L. Transport in accordance with this special provision must be noted on the dangerous goods transport document.

A5 Solids having an inhalation toxicity of Packing Group I are forbidden on passenger aircraft. They may be carried on cargo aircraft providing they are packed in accordance with the packing instructions for the Packing Group I substance and the maximum net quantity per package does not exceed 15 kg. Transport in accordance with this special provision must be noted on the dangerous goods transport document.

1.2 In principle, all entries under which liquids or solids having an inhalation toxicity of Packing Group I can be transported should be subject to one of the two special provisions, as appropriate.

1.3 According to the provisions in Part 2;0.4.1 g) of the Technical Instructions, in most cases, Division 6.1 with a Packing Group I inhalation toxicity always takes precedence. However, substances or preparations meeting the criteria of Class 8 having an inhalation toxicity of dusts and mists (LC₅₀) in the range of Packing Group I, but toxicity through oral ingestion or dermal contact only in the range of Packing Group III or less should be allocated to Class 8.

1.4 Therefore, liquids with a Packing Group I inhalation toxicity of mists may be assigned to the entry UN 2922, provided that the liquids meet the criteria of Class 8 and have toxicity through oral or dermal exposure in the range of Packing Group III or less.

1.5 Likewise, solids with a Packing Group I inhalation toxicity of dusts may be assigned to the entry UN 2923, as long as they have oral or dermal toxicity in the range of Packing Group III or less and criteria of Class 8 are met.

1.6 But, Special Provisions A4 and A5 are not currently applied to UN 2922 or UN 2923. Liquids and solids with a Packing Group I inhalation toxicity transported under these two entries are not subject to the restrictions in Special Provisions A4 or A5, which cannot be regarded as reasonable.

2. ACTION BY THE DGP

2.1 The DGP is invited to consider the proposed inclusion of Special Provision A4 in Column 7 for the entry UN 2922 — **Corrosive liquid, toxic, n.o.s.** and Special Provision A5 in Column 7 for the entry UN 2923 — **Corrosive solid, toxic, n.o.s.** in Table 3-1.

APPENDIX

PROPOSED AMENDMENT TO PART 3 OF 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
Corrosive liquid, toxic, n.o.s.*	2922	8	6.1	Corrosive & Toxic		A3 A4	I II III	E0 E2 E1	850	0.5L	854	2.5L
									851	1L	855	30L
									Y840	0.5L		
									852 Y841	5L 1L	856	60L
Corrosive solid, toxic, n.o.s.*	2923	8	6.1	Corrosive & Toxic		A3 A5	I II III	E0 E2 E1	858	1kg	862	25kg
									859	15kg	863	50kg
									Y844	5kg		
									860 Y845	25kg 5kg	864	100kg
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