International Civil Aviation Organization

DGP-WG/20-WP/20
19/10/20

WORKING PAPER

DANGEROUS GOODS PANEL (DGP)
WORKING GROUP MEETING (DGP-WG/20)

Virtual, 19 to 23 October 2020

Agenda Item 2: Managing air-specific safety risks and identifying anomalies
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

REVISIONS TO NAMES OF SELF-REACTIVE SUBSTANCES

(Presented by A.D Song)

SUMMARY

This working paper proposes to revise the name of self-reactive substances in Table 2-6.

Action by the DGP-WG: The DGP-WG is invited to consider the revisions to the chemical name of some self-reactive substances in Table 2-6, to align with the UN Recommendations as shown in the appendix to this working paper.

1. INTRODUCTION

1.1 Self-reactive substances currently designated for packaging are listed in Table 2-6 of the Technical Instructions.

1.2 Some chemical names do not conform to International Union of Pure and Applied Chemistry (IUPAC) nomenclature, which is a method of naming organic compounds as recommended by that federation, including:

As shown in Table 2-6 of the Technical Instructions: 2-(n,n-Ethoxycarbonylphenylamino)-3-methoxy-4-(n-methyl-n-cyclohexylamino) benzenediazonium zinc chloride

Correct chemical name: 2-(~~n~~N, ~~n~~N-Ethoxycarbonylphenylamino)-3-methoxy-4-(~~n~~N-methyl-~~n~~N-cyclohexylamino) benzenediazonium zinc chloride

1.3 The letter **n** and **N** have a completely different meaning in IUPAC nomenclature.

1.4 Part 2;4.2.3.2.4 of ICAO *Technical Instructions* (2021-2022 Edition) has been revised based on the latest revision of the UN Model Regulations. However, the 18th revised edition of the UN Model Regulations is referred to.

2. ACTION BY THE DGP-WG

2.1 The DGP-WG is invited to consider the proposed amendments to the edition of the UN Model Regulations and names of self-reactive substances in Part 2;4.2.3.2.4 of the Technical Instructions as shown in the appendix to this working paper.

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APPENDIX

PROPOSED AMENDMENT TO PARTS 2 OF THE TECHNICAL INSTRUCTIONS

Part 2

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4.2 FLAMMABLE SOLIDS, SELF-REACTIVE SUBSTANCES, DESENSITIZED EXPLOSIVES AND POLYMERIZING SUBSTANCES

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4.2.3 Division 4.1 — Self-reactive substances

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4.2.3.2.4 List of currently assigned self-reactive substances in packages

The following table (Table 2-6) is reproduced from 2.4.2.3.2.3 of the UN *Recommendations on the Transport of Dangerous Goods* (~~Eighteenth~~ Twenty-first revised edition), with irrelevant material removed.

Table 2-6. List of currently assigned self-reactive substances in packagings

Note.— Self-reactive substances to be transported must fulfil the classification and the control and emergency temperatures (derived from the self-accelerating decomposition temperature (SADT)) as listed.

Self-reactive substance	*Concentration (%)*	*Control temperature (°C)*	*Emergency temperature (°C)*	*UN generic entry*	*Notes*
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2-(~~n~~N, ~~n~~N-Ethoxycarbonylphenylamino)-3-methoxy-4-(~~n~~N-methyl- ~~n~~N-cyclohexylamino) benzenediazonium zinc chloride	63-92	+40	+45	3236	
2-(~~n~~N, ~~n~~N-Ethoxycarbonylphenylamino)-3-methoxy-4-(~~n~~N-methyl- ~~n~~N-cyclohexylamino) benzenediazonium zinc chloride	62	+35	+40	3236	
2-(~~n~~N, ~~n~~N-Methylaminoethylcarbonyl)-4-(3,4-dimethylphenylsulphonyl) benzenediazonium hydrogen sulphate	96	+45	+50	3236	
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