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# **Economic and Social Council**

Inland Transport Committee

22 August 2023

**Working Party on the Transport of Dangerous Goods**

Original: English

**Joint Meeting of Experts on the Regulations annexed to the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN) (ADN Safety Committee)**

**Forty-second session**

Geneva, 21-25 August 2023

Item 8 of the provisional agenda

**Any other business**

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## **Transport of liquified hydrogen in tank vessels**

**Submitted by the Government of Belgium**

### **Introduction**

1. The Belgian authorities received informally a question from the industry on how to make the transport of liquified hydrogen in tank vessels possible. With disregard to the technical consequences on how to manage pressure and temperature, the Belgian delegation is of the opinion that such transport might be useful in the light of the climate change mitigation and to meet the sustainable goals towards a zero emission. Indeed, we consider this request as an opportunity towards harmonization of performance requirements and intelligent transport systems related to legal instruments directly contributing to reduction of Greenhouse Gas (GHG) emissions.

### **Proposal**

2. The Belgian delegation proposes three possible ways to handle this issue in the ADN Safety Committee:

(a) the Belgian delegation considers to submit a working document for the next session of the ADN Safety Committee containing the application according to 1.5.2 of the regulation annexed to the ADN;

(b) the informal working group on substances could consider the risk of carrying hydrogen in cryogenic tanks;

(c) the meeting of the Group of Recommended ADN Classification Societies could have a closer look at technical solution and present possible maritime solutions to the ADN Safety Committee.

### **Action to be taken**

3. The Safety Committee is invited to consider the proposal in paragraph 2 above, and to take action as it deems appropriate.

4. The Informal Working Group on Substances is invited to consider the risk of carrying hydrogen in cryogenic tanks in paragraph 2 (b) above, and to take action as it deems appropriate.

5. The Group of Recommended ADN Classification Societies is invited to have a closer look at possible technical solutions and present possible maritime solutions to the ADN Safety Committee.

## **Justification**

6. The transport of liquified hydrogen with inland waterway barges can be considered as a greening action in the context of mitigating climate change. Therefore, we refer to Sustainable Development Goal 13: Take urgent action to combat climate change and its impacts.

7. Other goals that may be taken into account are Goal 7 (Ensure access to affordable, reliable, sustainable and modern energy) and Goal 9 (Build resilient infrastructure, promote sustainable industrialization and foster innovation).

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