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Economic Commission for Europe**Inland Transport Committee****Working Party on the Transport of Dangerous Goods****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 4 (b) of the provisional agenda

**Proposals for amendments to the Regulations annexed to ADN:
other proposals****Transport of Carbon Dioxide (CO₂), refrigerated, liquid****Transmitted by European Barge Union (EBU) and European Skippers Organization (ESO)*, *****Summary*

Referring documents: Working document ECE/TRANS/WP.15/AC.2/2023/6 of the forty-first session, January 2023

Informal document INF.24 of the forty-first session, January 2023

Informal document INF.12 of the fortieth session, August 2023 — Report of the Informal working group on substances, section P, paragraphs 64 to 66

Working document ECE/TRANS/WP.15/AC.2/2022/15 of the thirty-ninth session, January 2022

Informal document INF.6 of the thirty-ninth session (including the table of the "triple point" of carbon dioxide), January 2022

Informal document INF.18 of the fortieth session, August 2022

* Distributed in German by the Central Commission for the Navigation of the Rhine under the symbol CCNR-ZKR/ADN/WP.15/AC.2/2023/15

** A/77/6 (Sect. 20), table 20.6.



Referring to the documents and discussions mentioned above and as concluded during the forty-first session of the ADN Safety Committee, EBU/ESO would like to propose the following amendments to the ADN; amendments are indicated in **bold and underlined**:

(a) In Table C of Chapter 3.2, for UN No. 2187, add remark 42 in column 20:

2187	CARBON DIOXIDE, REFRIGERATED LIQUID	2	3A	2.2	G	1	1	1	95	1	yes		no	PP	0	31,39, <u>42</u>
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(b) In 3.2.3.1 add three extra sentences at the end of remark 42 of Table C, column 20:

"In the case of UN No. 2187 "CARBON DIOXIDE, REFRIGERATED LIQUID", this provision applies when the possibility of solidification is avoided. To ensure the product remains in the liquid phase, the temperature shall be kept at 15 °C above the solidification temperature at the required pressure during the transport.

The transport document shall contain a notice on the avoidance of solidification of the product."

(c) In 3.2.3.3/ 3.2.4.3:

Reference shall be made in column (20) to remark 42 for UN No. 1038 ETHYLENE, REFRIGERATED LIQUID, ~~and~~ for UN No. 1972 METHANE REFRIGERATED LIQUID or NATURAL GAS, REFRIGERATED LIQUID, with high methane content **and for UN No. 2187, CARBON DIOXIDE, REFRIGERATED LIQUID.**