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**Committee of Experts on the Transport of Dangerous Goods  
and on the Globally Harmonized System of Classification  
and Labelling of Chemicals**

Sub-Committee of Experts on the Transport of Dangerous Goods

**Forty-ninth session**

Geneva, 27 June – 6 July 2016  
Item 3 of the provisional agenda  
**Listing, classification and packing**

Polymerizing substances UN 3302,2-  
dimethylaminoethyl acrylate

Transmitted by the expert from Germany[[1]](#footnote-2)

1. During the last biennium polymerizing substances were introduced into the provisions for the transport of dangerous goods. Not all substances, which are transported in a stabilized form, can be assigned to the polymerizing substances.

2. UN 3302 was mentioned as a candidate for polymerizing substances in document ST/SG/AC.10/C.3/2014/82 but not included in the adopted amendments as a verification of its properties was regarded as necessary. German experts reviewed the issue again and came to the conclusion that UN 3302 2-DIMETHYLAMINOETHYL ACRYLATE is a substance able to polymerize. Under conditions of elevated temperature or heat radiation (sunshine) 2-Dimethylaminoethyl acrylate (DMAEA) is tending to spontaneous polymerization. That’s why it is recommended to store DMAEA with sufficient stabilization, in complete darkness and at low temperatures (< 25 °C).

3. An indication for the necessity of stabilization of DMAEA can also be found in the IMDG Code. In column (17) Properties and observations of the Dangerous Goods List in Part 3 it is noted: “Colourless to light yellow liquid. Acrid odour. Miscible with water. Causes tears. **Stabilized with hydroquinone derivatives.** Hydrolyses in water to give off acrylic acid and dimethylaminoethanol. Toxic if swallowed, by skin contact or by inhalation.”

Proposal

3. The expert from Germany proposes the following amendments:

(a) For UN 3302 in column (2) of the Dangerous Goods List (Chapter 3.2) add at the end “, STABILIZED”.

(b) For UN 3302 in column (6) of the Dangerous Goods List (Chapter 3.2) add “386”.

(c) In column “Name and description” of the Alphabetical Index of Substances and Articles for the entry “2-DIMETHYLAMINOETHYL ACRYLATE” add at the end “, STABILIZED”.

1. In accordance with the programme of work of the Sub-Committee for 2015–2016 approved by the Committee at its seventh session (see ST/SG/AC.10/C.3/92, paragraph 95 and ST/SG/AC.10/42, para. 15). [↑](#footnote-ref-2)