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

Sixtieth session
Geneva, 27 June-6 July 2022
Item 2 (c) of the provisional agenda

Explosives and related matters:
review of tests in parts I, II and III of the Manual of Tests and Criteria

Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals

Forty-second session
Geneva, 6-8 July 2022
Item 2 (a) of the provisional agenda

Work on the Globally Harmonized System of Classification and Labelling of Chemicals:

work of the Sub-Committee of Experts on the Transport of Dangerous Goods on matters of interest to the Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals

Manual of Tests and Criteria, sections 1.2.1.4.3 and 20.2.5 on self-heating test N.4 for organic peroxides

Transmitted by the European Chemical Industry Council (Cefic)

Introduction

1. In sections 1.2.1.4.3 and 20.2.5 of the Manual of Tests and Criteria, it is stated that self-reactive substances, type A to type G, should not be tested according to self-heating test N.4, as the test results will give a false positive result (i.e. temperature increase due to thermal decomposition rather than oxidative self-heating).

2. As organic peroxides have the same properties in this respect as self-reactive substances, they will also give a false positive result in the self-heating test N.4.

3. Cefic therefore proposes to add organic peroxides in sections 1.2.1.4.3 and 20.2.5 for which no self-heating test N.4 should be conducted.

Proposal

4. Amend the first sentence of section 1.2.1.4.3 to read as follows (new text in bold):

“Self-reactive substances, type A to type G, or organic peroxides, type A to type G, should not be tested in the self-heating test N.4, as the test results will give a false positive result (i.e. temperature increase due to thermal decomposition rather than oxidative self-heating).”

5. Amend section 20.2.5 to read as follows:

“Any substance which shows the properties of a self-reactive substance (Type A to Type G) or an organic peroxide (Type A to Type G) should not be tested in the self-heating test N.4, as the test results will give a false positive result (i.e. temperature increase due to thermal decomposition rather than oxidative self-heating).”