

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

18 May 2022

**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).”