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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**

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| **Sub-Committee of Experts on the Transport of Dangerous Goods** |
| **Fifty-fifth session** |
| Geneva, 1-5 July 2019  Item 3 of the provisional agenda  **Listing, classification and packaging** |

Organic peroxides, new formulations to be listed in 2.5.3.2.4 and portable tank instruction T23

Transmitted by the European Chemical Industry Council (CEFIC)[[1]](#footnote-2)

Introduction

1. Since new organic peroxide formulations have become commercially available, there is a need to update the list under 2.5.3.2.4 and portable tank instruction T23. A list of new products, proposed classification, the accompanying competent authority approval references and a summary of the supporting test data are given in the Annex to this document.

Proposals

1. CEFIC proposes to include a new entry in the list of currently assigned organic peroxide under 2.5.3.2.4 and a new entry to portable tank instruction T23 in 4.2.5.2.6 as follows:

Amendments to 2.5.3.2.4, list of currently assigned organic peroxides

Add the following new entry for “ACETYL ACETONE PEROXIDE”:

| ORGANIC PEROXIDE | **Concentration    (%)** | **Diluent type A   (%)** | Diluent type B1  (%) | **Inert solid   (%)** | **Water**  **(%)** | **Packing Method** | **Control tempe-rature  (°C)** | **Emergency temperature    (°C)** | **Number (Generic entry)** | **Subsidiary hazards  and  remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| " | ≤35 | ≥ 57 |  |  | ≥ 8 | OP8 |  |  | 3107 | 32) |

In the list of “notes on 2.5.3.2.4” add the following entry:

*“32) Active oxygen ≤ 4.15%”*

Amendments to 4.2.5.2.6, portable tank instruction T23

For UN No. 3109 “ORGANIC PEROXIDE, TYPE F, LIQUID” add “tert-Butyl hydroperoxide, not more than 56% with diluent type Bd” under the column “substance”.

Add a new note “d” under the table to read: “d being tert-Butyl alcohol".

Annex

**ST/SG/AC.10/C.3/2019/15**

Test results of new organic peroxides and formulations to be added in 2.5.3.2.4 and T23

| **No** | **Product** | **packaging** | **UN** | ***Detonation*** | ***P/T/C.1*** | ***Deflagration/C.2*** | ***Koenen/E.1*** | ***DPVT/E.2*** | ***(mod) Trauzl F.3 or F.4 or F5*** | ***SADT (H.3 or H.4)*** | **Competent authority approval number** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Acetyl Acetone Peroxide | OP8 | 3107 | Test A.1 Fragmented length 11 and 13 cm No | <2170kPa, No | 0.012 mm/s, No | < 1mm (“O”),  No | 1.0 mm (10g),  Low | F.3 10 and 15 ml Low | H.4 60 °C (400ml) | NL TNO  NL 06DV3/3307 |
| 2 | tert-Butyl hydroperoxide, not more than 56% in a diluent type B | T23 portable tank | 3109 | Test A.6 Fragmented lenth 19 cm; Blanc  16.5 cm No | Max. pressure of 2070 kPa not achieved  No | <0.01 mm/s 50 °C  No | <1.0mm ("A") Low | 1.0 mm  (10g)  Low | F.4 13.8 ml Blanc 11.5 ml  No | H.3 isothermal calorimetry 50°C for a 20-m3 insulated tank | NL TNO 18EM/0567 Test report including emergency vent testing for tank. according to the vent test in Appendix 5 of the Manual of Tests and Criteria, 10 liter vent test for vent sizing |

1. In accordance with the programme of work of the Sub-Committee for 2019-2020 approved by the Committee at its ninth session (see ST/SG/AC.10/C.3/108, paragraph 141 and ST/SG/AC.10/46, paragraph 14) [↑](#footnote-ref-2)