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|  | United Nations | ST/SG/AC.10/C.3/2020/14 | |
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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-seventh session** |
| Geneva, 29 June-8 July 2020  Item 3 of the provisional agenda  **Listing, classification and packaging** |

Organic peroxides: new formulations to be listed in 2.5.3.2.4

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

Introduction

1. Since new peroxide formulations have become commercially available, there is a need to update the list under 2.5.3.2.4. Approval for maritime transport of the products has already been granted by the Ministry of Land, Infrastructure, Transport and Tourism of Japan. The products have been transported from Japan to Asian countries for more than 15 years without any incident or accident.
2. The information of the new products including classification and a summary of test data is given in the annex to this document.

Proposals

1. The expert from Japan proposes to include two new entries in the list of currently assigned organic peroxides under 2.5.3.2.4, as indicated below.

Proposed addition to 2.5.3.2.4 (*List of currently assigned organic peroxides in packaging*):

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ORGANIC PEROXIDE** | **Concentration (%)** | **Diluent type A (%)** | **Diluent type B (%)** | **Inert solid**  **(%)** | **Water** | **Packing Method** | **Control temperature (°C)** | **Emergency temperature (°C)** | **Number (Generic entry)** | **Subsidiary risks and remarks** |
| tert-BUTYLPEROXY ISOPROPYLCARBONATE | ≤ 62 |  | ≥ 38 |  |  | OP7 |  |  | 3105 |  |
| tert-HEXYL PEROXYPIVALATE | ≤ 52 as a stable dispersion in water |  |  |  |  | OP8 | +15 | +20 | 3117 |  |

Annex [English only]

Test results of new organic peroxide formulations to be added

| **Product** | **packaging** | **UN No.**  **(PSN)** | ***Detonation/A.1*** | ***P/T / C.1*** | ***Deflagration / C.2*** | ***Koenen/ E.1*** | ***DPVT/ E.2*** | ***Ballistic mortar/***  ***F.1*** | ***SADT / H.4*** | **Competent Authority approval number** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| tert-Butyl peroxy isopropylcarbonate,  ≤ 62% in diluent type B | OP7 | 3105  (ORGANIC PEROXIDE TYPE D, LIQUID) | < 1.5 times  (101 %),  No | Max pressure of not more than 690 kPa,  At the End of the test：  Not Ignition  No | 0.040mm/s,  No | 1.5mm  (“F”)  Medium | 1.0mm  (10g)  Low | - | 65°C  (400ml) | 中運安舶第308号  16 November 2004 |
| tert-Hexyl peroxypivalate, ≤ 52% as a stable dispersion in water | OP8 | 3117  (ORGANIC PEROXIDE TYPE E, LIQUID TEMPERATURE CONTROLLED) | < 1.5 times  (87 %),  No | <2070kPa,  No | 0.015 mm/s,  No | <1.0mm  (“O”)  No | <1.0mm  (50g)  No | - | 30°C  (400ml) | 中運安舶第268号  17 September 2003 |

1. 2020 (A/74/6 (Sect.20) and Supplementary, Subprogramme 2 [↑](#footnote-ref-2)