|  |  |  |  |
| --- | --- | --- | --- |
|  | United Nations | ST/SG/AC.10/C.3/2018/29 | |
| _unlogo | **Secretariat** | | Distr.: General  29 March 2018  Original: English |

**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** |
| **Fifty-third session** |
| Geneva, 25 June-4 July 2018  Item 3 of the provisional agenda  **Listing, classification and packaging** |

Organic peroxides: new formulations to be listed in 2.5.3.2.4 and IBC 520

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

Introduction

1. Since a few new peroxides and formulations have become commercially available, there is a need to update the list under 2.5.3.2.4 and packing instruction IBC520. A list of new products, proposed classification, the accompanying competent authority approval references and a summary of the supporting test data are given in Annex to this proposal.

Proposals

1. CEFIC proposes to include one new entry in the list of currently assigned organic peroxides under 2.5.3.2.4 and two new entries to be included in packing instruction IBC520, as follows:

**Proposed amendments to the list of currently assigned organic peroxides under 2.5.3.2.4**

Change the following entry as indicated

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ORGANIC PERO XIDE** | **Concentration (%)** | **Diluent type A (%)** | **Diluent type  B 1) (%)** | **Inert solid (%)** | **Water** | **Packing Method** | **Control tempe rature (°C)** | **Emer gency tempera ture (°C)** | **Number (Generic entry)** | **Subsi diary risks and remarks** |
| **Change:**  Di-(4-tert-butyl cyclo hexyl) peroxydi carbonate | ≤ 42 as a paste |  |  |  |  | ~~OP7~~ OP8 | 35 | 40 | ~~3116~~ 3118 |  |

**Proposed amendments to 4.1.4.2, Packing instruction IBC520**

Add the following entries under UN3119 as indicated

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **UN No.** | **Organic peroxide** | **Type of IBC** | **Maximum quantity (litres)** | **Control temperature** | **Emergency Temperature** |
| **3119** | **ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED** |  |  |  |  |
| **ADD NEW entries:** | | | | |
| tert-Amyl peroxypivalate, not more than 42% as a stable dispersion in water | 31HA1 | 1000 | 0 ºC | +10 ºC |
| tert-Butyl peroxypivalate, not more than 42% in a diluent type A | 31HA1 31A | 1000 1250 | 10 ºC 10 ºC | 15 ºC 15 ºC |

Annex

Test results of new organic peroxides and formulations to be added/amended (2.5.3.2.4 or IBC520)

| **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 | Di-(4-tert-butylcyclohexyl) peroxydicarbonate, ≤ 42% as a paste | OP8 | 3118 | Test A.6 No | <2170kPa, No | 0.33 mm/s, No | < 1mm (“O”),  No | <1.0 mm (10g),  Low | F.4 4.6 ml Low | H.4 45 °C (400ml) | NL TNO 16 EM/0225 |
| 2 | tert-Amyl peroxypivalate, not more than 42% as a stable dispersion in water | OP8 31HA1 | 3119 | Test A.1 (77%) No | <2170kPa, No | 0.0 mm/s, No | <1.0mm ("O"), No | <1.0 mm (10g),  Low | F.4 1.6 ml, No | H.3, isothermal calorimetry 20°C, | NL TNO 17EM/0337 |
| 3 | tert-Butyl peroxypivalate, not more than 42% in a diluent type A | OP8 31HA1 31A | 3119 | Test A.1 (75%) No | 220 ms (75%),  Yes slowly | 0.08 mm/s (75%) N0 | <1.0mm ("A") (50%) Low | <3.5 mm  (10g) (50%)  Low | F.5 10.5 J/g (55%)  Low | H.3 isothermal calorimetry 25°C | NL TNO 8DV3/2130  (IBC 31HA1) NL TNO 6DV3/1071 (IBC 31A) |

1. In accordance with the programme of work of the Sub-Committee for 2017–2018 approved by the Committee at its eighth session (see ST/SG/AC.10/C.3/100, paragraph 98 and ST/SG/AC.10/44, para. 14). [↑](#footnote-ref-2)