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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

Sub-Committee of Experts on the Transport of Dangerous Goods

Forty-second session
Geneva, 3 – 11 December 2012
Item 7 of the provisional agenda
New proposals for amendments to the Model Regulations on the Transport of Dangerous Goods

Organic peroxides

New formulations to be listed in 2.5.3.2.4 and IBC520

Transmitted by the International Council of Chemical Association (ICCA)[1]

Introduction

1. Since several new peroxides and formulations have become commercially available, there is a need to update 2.5.3.2.4 and 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

2. ICCA proposes to include two amended entries and a correction in 2.5.3.2.4, list of currently assigned organic peroxides, as indicated in 3. Further, ICCA proposes to include two changes in packaging IBC520, as indicated in 4.

[1] In accordance with the programme of work of the Sub-Committee for 2011-2012 approved by the Committee at its fifth session (refer to ST/SG/AC.10/C.3/76, para. 116 and ST/SG/AC.10/38, para. 16).

3: Proposed amendments to 2.5.3.2.4 List of currently assigned organic peroxides:

ORGANIC PEROXIDE	**Concentration (%)**	**Diluent type A (%)**	**Diluent type B** 1) **(%)**	**Inert solid (%)**	**Water (%)**	**Packing Method**	**Control tempe-rature (°C)**	**Emergency temperature (°C)**	**Number (Generic entry)**	**Subsidiary risks and remarks**
Correct: DIBENZOYL PEROXIDE	>51 - 100			≤ 48		OP2			3102	3)
Into DIBENZOYL PEROXIDE Remark: typing error since 8th revision	>52 - 100			≤ 48		OP2			3102	3)
Change: DICETYL PEROXYDICARBONATE	≤ 100					OP7	+30	+35	3116	
Into DICETYL PEROXYDICARBONATE	≤ 100					OP8	+30	+35	3120	
tert-BUTYL PEROXY-3,5,5-TRIMETHYLHEXANOATE	>32-100		≥ 68			OP7			3105	
	≤ 32					OP8			3109	
Into tert-BUTYL PEROXY-3,5,5-TRIMETHYLHEXANOATE	>37-100		≥ 63			OP7			3105	
	≤ 37					OP8			3109	
Remark: This change is proposed because in packing instruction IBC520, this product with a concentration of ≤ 37% is already listed as UN 3109										

4. Proposed amendments to packing instruction IBC520:

UN No.	*Organic peroxide*	*Type of IBC*	*Maximum quantity (litres)*	*Control temperature*	*Emergency Temperature*
3119	**ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED**				
	Add new entry:				
	1,1,3,3-Tetramethylbutyl peroxy-2-ethylhexanoate, not more than 67%, in diluent type A	31HA1	1000	+15 ºC	+20 ºC
	Add to existing entry:				
	Di-(2-ethylhexyl) peroxydicarbonate, not more than 62%, stable dispersion, in water	31HA1	1000	-20 ºC	-10 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 No.*	*Detonation*	*P/T / C.1*	*Deflagration / C.2*	*Koenen/ E.1*	*DPVT/ E.2*	*(mod) Trauzl F.3 or F.4*	*SADT (H.3 or H.4)*	*Competent Authority approval number*
1	Dicetyl peroxydicarbonate, ≤100%	OP8	3120	Test A.1 No propagation	<2170kPa, No	0.0 mm/s, No	< 1mm ("O"), No	<1.0 mm (10g), Low	n.a.	H.4 40 °C (400ml)	NL TNO 12EM/562
2	Di-(2-ethylhexyl) peroxydicarbonate, not more than 62%, stable dispersion, in water	31HA1	3119	Test A.1 No propagation	<2170kPa, No	0.0 mm/s, No	<1.0mm ("O"),No	1.0 mm (50g), Low	F.4 0.4 ml, Low	H.3 0 °C	NL TNO 08DV3/2133
3	1,1,3,3-Tetramethylbutyl peroxy-2-ethylhexanoate, not more than 67%, in diluent type A	31HA1	3119	Test A.6 No propagation (90%)	<2170kPa, No (94%)	0.33 mm/s, No (70%)	<1 mm ("A"), Low (70%)	< 3.5 mm, Low (70%)	F.4 4 ml, Low (70%)	H.3 +30 °C (65%)	NL TNO 11 HPE/612