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## [<sup>F1</sup>ANNEX III

### ULTIMATE BIODEGRADABILITY (MINERALISATION) TEST METHODS FOR SURFACTANTS IN DETERGENTS

#### Textual Amendments

- F1** Substituted by [Commission Regulation \(EC\) No 907/2006 of 20 June 2006 amending Regulation \(EC\) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII thereto \(Text with EEA relevance\)](#).

A. The reference method for laboratory testing of surfactant ultimate biodegradability in this Regulation is based on the EN ISO standard 14593: 1999 (CO<sub>2</sub> headspace test).

Surfactants in detergents shall be considered as biodegradable if the level of biodegradability (mineralisation) measured according to one of the following tests<sup>(1)</sup> is at least 60 % within 28 days:

1. EN ISO Standard 14593: 1999 — Water quality — Evaluation of ultimate aerobic biodegradability of organic compounds in aqueous medium — Method by analysis of inorganic carbon in sealed vessels (CO<sub>2</sub> headspace test). Pre-adaptation is not to be used. The 10-day window principle is not applied (reference method).
2. [<sup>F2</sup>Council Regulation (EC) No 440/2008 laying down test methods pursuant to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (“EU Regulation 440/2008”), Annex, Part C: Methods for the determination of ecotoxicity, Part 4 (CO<sub>2</sub> (carbon dioxide) evolution test (method C.4-C)).]
3. [<sup>F3</sup>EU Regulation 440/2008, Annex, Part C: Methods for the determination of ecotoxicity, Part 6 (closed bottle test (method C.4-E)).]
4. [<sup>F4</sup>EU Regulation 440/2008, Annex, Part C: Methods for the determination of ecotoxicity, Part 5 (manometric respirometry test (method C.4-D)).]
5. [<sup>F5</sup>EU Regulation 440/2008, Annex, Part C: Methods for the determination of ecotoxicity, Part 7 (M.I.T.I. test (method C.4-F)).]
6. ISO 10708:1997 — Water quality — Evaluation in an aqueous medium of the ultimate aerobic biodegradability of organic compounds — Determination of biochemical oxygen demand in a two-phase closed bottle test. Pre-adaptation is not to be used. The 10-day window principle is not applied.

#### Textual Amendments

- F2** Words in [Annex 3 para. 2](#) substituted (31.12.2020) by [The Detergents \(Amendment\) \(EU Exit\) Regulations 2019 \(S.I. 2019/672\)](#), regs. 1, **25(2)(a)**; 2020 c. 1, Sch. 5 para. 1(1)
- F3** Words in [Annex 3 para. 3](#) substituted (31.12.2020) by [The Detergents \(Amendment\) \(EU Exit\) Regulations 2019 \(S.I. 2019/672\)](#), regs. 1, **25(2)(b)**; 2020 c. 1, Sch. 5 para. 1(1)
- F4** Words in [Annex 3 para. 4](#) substituted (31.12.2020) by [The Detergents \(Amendment\) \(EU Exit\) Regulations 2019 \(S.I. 2019/672\)](#), regs. 1, **25(2)(c)**; 2020 c. 1, Sch. 5 para. 1(1)
- F5** Words in [Annex 3 para. 5](#) substituted (31.12.2020) by [The Detergents \(Amendment\) \(EU Exit\) Regulations 2019 \(S.I. 2019/672\)](#), regs. 1, **25(2)(d)**; 2020 c. 1, Sch. 5 para. 1(1)

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- B. Depending on the physical characteristics of the surfactant, one of the methods listed below may be used if appropriately justified <sup>(2)</sup>. It should be noted that the pass criterion of at least 70 % of these methods is to be considered as equivalent to the pass criterion of at least 60 % referred to in methods listed in point A. The adequacy of the choice of the methods listed below shall be decided on a case-by-case confirmation, in accordance with Article 5 of this Regulation.
1. [<sup>F6</sup>EU Regulation 440/2008, Annex, Part C: Methods for the determination of ecotoxicity, Part 2 (DOC die-away test (method C.4-A)).]
  2. [<sup>F7</sup>EU Regulation 440/2008, Annex, Part C: Methods for the determination of ecotoxicity, Part 3 (modified OECD screening test (method C.4-B)).]

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**Textual Amendments**

- F6** Words in [Annex 3 para. 1](#) substituted (31.12.2020) by [The Detergents \(Amendment\) \(EU Exit\) Regulations 2019 \(S.I. 2019/672\)](#), regs. 1, **25(3)(a)**; 2020 c. 1, Sch. 5 para. 1(1)
- F7** Words in [Annex 3 para. 2](#) substituted (31.12.2020) by [The Detergents \(Amendment\) \(EU Exit\) Regulations 2019 \(S.I. 2019/672\)](#), regs. 1, **25(3)(b)**; 2020 c. 1, Sch. 5 para. 1(1)

<sup>F8</sup> ...]

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**Textual Amendments**

- F8** Words in [Annex 3 Pt. B](#) omitted (31.12.2020) by virtue of [The Detergents \(Amendment\) \(EU Exit\) Regulations 2019 \(S.I. 2019/672\)](#), regs. 1, **25(3)(c)**; 2020 c. 1, Sch. 5 para. 1(1)

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- (1) [<sup>F1</sup>These tests are identified as the most suitable for surfactants.]
- (2) [<sup>F1</sup>The DOC methods could give results on the removal and not on the ultimate biodegradation. The manometric respirometry and the MITI and two-phase BOD methods would not be appropriate in some cases because the high initial test concentration could be inhibitory.]

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**Textual Amendments**

- F1** Substituted by [Commission Regulation \(EC\) No 907/2006 of 20 June 2006 amending Regulation \(EC\) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII thereto \(Text with EEA relevance\)](#).

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