

SCHEDULE 4

Regulation 7

Amendment of the Measuring Container Bottles (EEC Requirements) Regulations 1977

Introduction

1. The Measuring Container Bottles (EEC Requirements) Regulations 1977 are amended in accordance with paragraphs 2 to 11.

Commencement Information

I1 Sch. 4 para. 1 in force at 31.12.2020 on IP completion day (in accordance with [2020 c. 1](#), [Sch. 5 para. 1\(1\)](#)), see [reg. 1](#)

Amendment to regulation 2

2.—(1) Regulation 2 (interpretation) is amended as follows.

(2) In paragraph (1)—

(a) in the definition of “batch”—

(i) for “paragraph 1 of Annex II of the Directive” substitute “ Schedule 3 ”;

(ii) for “the Directive” in the second place in which it occurs substitute “ these Regulations ”;

(b) for the definition of “importer” substitute—

““importer” means any person who—

(a) is established in the UK; and

(b) places a measuring container bottle (marked with the UK marking) from a country outside the United Kingdom onto the market;”;

(c) in the definition of “manufacturer” for “EEC sign” substitute “ UK marking ”;

(d) after “production control records” insert—

““UK marking” means the marking in the form set out in Annex 2 of Regulation [\(EC\) No 765/2008](#)^{M1} of the European Parliament and of the Council setting out the requirements for accreditation and market surveillance relating to the marketing of products;”.

(3) After paragraph (1) insert—

“(1A) Schedules 2 and 3 reproduce provisions of Annexes I and II (respectively) to the Directive with amendments to correct deficiencies in retained EU law.

(1B) A reference to a provision of Schedules 2 and 3 is a reference to the equivalent provision of Annexes I and II to the Directive as set out in that Schedule.”.

(4) In paragraph (3), for “the schedule” substitute “ Schedule 1 ”.

Commencement Information

I2 Sch. 4 para. 2 in force at 31.12.2020 on IP completion day (in accordance with [2020 c. 1](#), [Sch. 5 para. 1\(1\)](#)), see [reg. 1](#)

Marginal Citations

M1 OJ L 218, 13.8.2008 p30.

Changes to legislation: There are currently no known outstanding effects for the The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019, SCHEDULE 4. (See end of Document for details)

Amendment to regulation 3

3. In regulation 3 (application), for the words from “only” to the end of the regulation, substitute—

“to bottles made of glass, or any other substance having the rigidity and stability that offers the same metrological guarantees as glass, when such bottles—

- (a) are stoppered or designed to be stoppered and are intended for the storage, transport or delivery of liquids,
- (b) have a nominal capacity of between 0.05 litre and five litres inclusive, and
- (c) have metrological characteristics (design characteristics and uniformity of manufacture)

such that they can be used as measuring containers, i.e. when they are filled up to a specified level or to a specified percentage of their brim capacity their contents can be measured with sufficient accuracy.”.

Commencement Information

I3 Sch. 4 para. 3 in force at 31.12.2020 on IP completion day (in accordance with 2020 c. 1, Sch. 5 para. 1(1)), see reg. 1

Amendment to regulation 4

4. In regulation 4 (weights and measures acts) for “EEC sign” substitute “UK marking”.

Commencement Information

I4 Sch. 4 para. 4 in force at 31.12.2020 on IP completion day (in accordance with 2020 c. 1, Sch. 5 para. 1(1)), see reg. 1

Amendment to regulation 5

5. For regulation 5 substitute—

“5.—(1) Only measuring container bottles—

- (a) complying with paragraph 3 of Schedule 2;
- (b) the actual capacity of which has been checked in accordance with paragraph 4 of Schedule 2; and
- (c) marked in accordance with paragraph 5.1.1 and 5.1.2 of Schedule 2; shall be marked with the UK marking.

(2) The UK marking on a measuring container bottle [^{F1}, or where paragraph (2A) applies, on a label affixed to the bottle or on a document accompanying the bottle] shall be at least 3mm high and shall be indelible, easily legible and visible.

[^{F2}(2A) For a period of 24 months beginning with IP completion day, the UK marking may be affixed to a label affixed to, or a document accompanying, a measuring container bottle.]

(3) It is the responsibility of the manufacturer to affix the UK marking to certify that a measuring container bottle meets the requirements of these Regulations, including Schedule 2.”.

- F1** Words in Sch. 4 para. 5 inserted (31.12.2020 immediately before IP completion day) by [The Product Safety and Metrology etc. \(Amendment etc.\) \(UK\(NI\) Indication\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1460\)](#), reg. 1(4), [Sch. 3 para. 4\(2\)\(a\)](#)
- F2** Words in Sch. 4 para. 5 inserted (31.12.2020 immediately before IP completion day) by [The Product Safety and Metrology etc. \(Amendment etc.\) \(UK\(NI\) Indication\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1460\)](#), reg. 1(4), [Sch. 3 para. 4\(2\)\(b\)](#)

Commencement Information

- I5** Sch. 4 para. 5 in force at 31.12.2020 on IP completion day (in accordance with [2020 c. 1](#), [Sch. 5 para. 1\(1\)](#)), see [reg. 1](#)

Amendment to regulation 6

6. In regulation 6 (manufacturer's identification mark) omit paragraph (3).

Commencement Information

- I6** Sch. 4 para. 6 in force at 31.12.2020 on IP completion day (in accordance with [2020 c. 1](#), [Sch. 5 para. 1\(1\)](#)), see [reg. 1](#)

Insertion of regulation 7A

7. After regulation 7 insert—

“Obligations which are met by complying with obligations in the Directive

7A.—(1) In this regulation any reference to an Article or an Annex is a reference to an Article or an Annex of the Directive.

(2) Paragraph (3) applies where, before a measuring container bottle is sold or supplied on the UK market, the manufacturer—

- (a) has complied with the requirements of the Directive in accordance with Article 2 and Annex 1; and
- (b) marks the bottle with the EEC sign in accordance with the third subparagraph of paragraph 5 of Annex 1.

(3) Where this paragraph applies—

- (a) the requirements of regulations 5 and of Schedule 2 are to be treated as being satisfied;
- (b) the definitions of importer and manufacturer in regulation 2(1) apply subject to the modification that the references to “UK marking” are to be read as references to the EEC sign; and
- (c) regulations 4, 9 and 10 apply subject to the modifications that—
 - (i) any reference to “UK marking” is to be read as a reference to the EEC sign;
 - (ii) any reference to “these Regulations” is to be read as a reference to the Directive.

Changes to legislation: There are currently no known outstanding effects for the *The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019, SCHEDULE 4.* (See end of Document for details)

[^{F3}Expiry of regulation 7A

7B.—(1) Subject to paragraphs (2) and (3), regulation 7A ceases to have effect at the end of the period of 12 months beginning with IP completion day.

(2) Notwithstanding the expiry of regulation 7A—

- (a) any measuring container bottle to which paragraph (3) applies may be sold or supplied on the market of Great Britain on or after the expiry of regulation 7A;
- (b) any obligation to which a person was subject under regulation 7A(2) in respect of a measuring container bottle to which paragraph (3) applies continues to have effect after the expiry of regulation 7A.

(3) This paragraph applies to a measuring container bottle which—

- (a) was sold or supplied on the market of Great Britain prior to the expiry of regulation 7A; and
- (b) in respect of which the requirements in regulation 7A were met.

Qualifying Northern Ireland Goods

7C.—(1) Where paragraph (2) applies—

- (a) the requirements of regulation 5 and of Schedule 2 are treated as being satisfied;
- (b) the definition of “importer” and “manufacturer” in regulation 2(1) apply subject to the modification that the references to “UK marking” are to be read as references to the EEC sign.

(2) This paragraph applies where a measuring container bottle—

- (a) complies with regulation 5, as it applies in Northern Ireland; and
- (b) is qualifying Northern Ireland goods.

(3) In this regulation “qualifying Northern Ireland goods” has the meaning given to it in regulations made under section 8C(6) of the European Union (Withdrawal) Act 2018.”].

F3 Words in Sch. 4 para. 7 inserted (31.12.2020 immediately before IP completion day) by [The Product Safety and Metrology etc. \(Amendment etc.\) \(UK\(NI\) Indication\) \(EU Exit\) Regulations 2020 \(S.I. 2020/1460\)](#), reg. 1(4), [Sch. 3 para. 4\(3\)](#)

Commencement Information

I7 Sch. 4 para. 7 in force at 31.12.2020 on IP completion day (in accordance with [2020 c. 1](#), [Sch. 5 para. 1\(1\)](#)), see [reg. 1](#)

Amendment to regulation 9

8. In regulation 9 (individual measuring container bottles), for “EEC sign” in each place in which it occurs substitute “ UK marking ”.

Commencement Information

I8 Sch. 4 para. 8 in force at 31.12.2020 on IP completion day (in accordance with [2020 c. 1](#), [Sch. 5 para. 1\(1\)](#)), see [reg. 1](#)

Amendment to regulation 10

9. In regulation 10 (offences)—
- (a) in paragraphs (1)(a) and (b) and paragraph (7), for “EEC sign” substitute “UK marking”;
 - (b) in paragraph (1)(c), for “in section 2 of Annex I of the Directive” substitute “at paragraph 1 of Schedule 2”.

Commencement Information

- I9** Sch. 4 para. 9 in force at 31.12.2020 on IP completion day (in accordance with [2020 c. 1, Sch. 5 para. 1\(1\)](#)), see [reg. 1](#)

Amendment to Schedule

10. For the heading “Schedule” substitute “Schedule 1”.

Commencement Information

- I10** Sch. 4 para. 10 in force at 31.12.2020 on IP completion day (in accordance with [2020 c. 1, Sch. 5 para. 1\(1\)](#)), see [reg. 1](#)

Insertion of Schedules 2 and 3

11. After Schedule 1, insert—

“SCHEDULE 2

Regulations 2(1A), 5, 7A

(Annex I to the Directive)

1. Measuring container bottles shall be characterized by the following capacities which are always specified for a temperature of 20C:

1.1. the nominal capacity V_n is the volume which is marked on the bottle; it is the volume of liquid which the latter is deemed to contain when it is filled in the conditions of use for which it is intended;

1.2. the brim capacity of a bottle is the volume of liquid it contains when filled to the brim;

1.3. the actual capacity of a bottle is the volume of liquid it in fact contains when it is filled exactly under the conditions corresponding theoretically to the nominal capacity;

2. There are two methods of filling measuring container bottles:

(1) to a constant level,

(2) to a constant vacuity.

The distance between the theoretical filling level for the nominal capacity and the brim level and the difference between the brim capacity and the nominal capacity, known as the volume of expansion or vacuity, shall be perceptibly constant for all bottles of the same type, that is, for all bottles made to the same design.

3. The maximum permissible errors (positive or negative) in the capacity of a measuring container bottle, i.e. the greatest differences permitted (positive or negative) at a temperature

Changes to legislation: There are currently no known outstanding effects for the The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019, SCHEDULE 4. (See end of Document for details)

of 20°C and under the control conditions laid down in Schedule 3, between the actual capacity and the nominal capacity V_n shall be in accordance with the following table:

<i>Normal capacity</i> <i>millilitres</i>	<i>V_n in Maximum permissible errors</i>	
	as a % of V_n	in millilitres
from 50 to 100		3
from 100 to 200	3	
from 200 to 300		6
from 300 to 500	2	
from 500 to 1 000		10
from 1 000 to 5 000	1	

The maximum permissible error in the brim capacity shall be the same as the maximum permissible error in the corresponding nominal capacity. The systematic exploitation of tolerances shall be prohibited.

4. In practice, the actual capacity of a measuring container bottle shall be checked by determining the quantity of water at 20°C which the bottle actually contains when filled to the level theoretically corresponding to the nominal capacity. It may also be checked indirectly by a method of equivalent accuracy.

5. A measuring container bottle shall bear the following indelible, easily legible and visible indications :

5.1. on its side, on the bottom rim or on the bottom:

5.1.1. an indication of its nominal capacity in litres, centilitres or millilitres in figures at least 6 mm high, if the nominal capacity is greater than 100 cl, 4 mm high if it is from 100 cl down to but not including 20 cl and 3 mm high if it is not more than 20 cl, followed by the symbol for the unit of measurement used or, where appropriate, by the name of the unit in accordance with the Units of Measurement Regulations 1986^{M2};

5.1.2. the manufacturer's identification mark referred to in regulation 6;

5.1.3. the UK marking;

5.2. On the bottom or on the bottom rim, in such a manner as to avoid confusion with the previous indication, in figures of the same minimum height as those expressing the corresponding nominal capacity, according to the method or methods of filling for which the bottle is intended:

5.2.1. an indication of the brim capacity expressed in centilitres and not followed by the symbol cl, and/or

5.2.2 an indication of the distance in millimetres from the brim level to the filling level corresponding to the nominal capacity, followed by the symbol mm.

5.3. Other indications may appear on the bottle provided they do not give rise to confusion with the compulsory indications.

SCHEDULE 3

Regulation 2(1A)

(Annex II to the Directive)

METHOD OF SAMPLING

1. A sample of measuring container bottles of the same design and the same manufacture shall be drawn from a batch corresponding, in principle, to an hour's production.

If the result of the check on a batch corresponding to an hour's production is not satisfactory, a second test can be carried out, based either on another sample from a batch corresponding to a longer period of production or, where production has been subject to a check recognized by the Secretary of State, on the results recorded on the manufacturers' check-cards.

The number of measuring container bottles constituting the sample shall be 35 or 40 as determined by an inspector.

MEASURING THE CAPACITY OF THE MEASURING CONTAINER BOTTLES CONSTITUTING THE SAMPLE

2. The measuring container bottles shall be weighed empty.

They shall be filled with water at 20C of a known density, up to the filling level appropriate to the method of checking used.

They shall then be weighed in full.

The check shall be carried out by means of a legal measuring instrument, suitable for effecting the necessary operations.

Error in measuring the capacity shall not be greater than one-fifth of the maximum permissible error corresponding to the nominal capacity of the measuring container bottle.

APPLICATION OF THE RESULTS

3

3.1. Use of the standard deviation method

The number of measuring container bottles in the sample is 35.

3.1.1 Calculate as follows (see 3.1.4.):

3.1.1.1. the average
 \bar{x}

3.1.1.2. estimated standard deviation s of the actual capacities X_i of the bottles in the batch.

3.1.2. Calculate as follows:

3.1.2.1. The upper limit T_u : the sum of the indicated capacity (see Schedule 2 paragraph 5) and of the maximum permissible error corresponding to this capacity.

3.1.2.1. The lower limit T_l : the difference between the indicated capacity (see Schedule 2 paragraph 5) and the maximum permissible error corresponding to this capacity.

3.1.3. Acceptance criteria:

The batch shall be declared to comply with the Regulations if the numbers
 \bar{x}

Changes to legislation: There are currently no known outstanding effects for the The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019, SCHEDULE 4. (See end of Document for details)

$$\bar{x} + k \cdot s \leq T_s$$

$$\bar{x} - k \cdot s \geq T_i$$

$$s \leq F (T_s - T_i)$$

where $k = 1.57$

and $F = 0.266$

3.1.4. Calculation of the mean value

$$\bar{x}$$

Calculate as follows:

— the sum of the 35 actual capacity measurements

$$x_i = \sum x_i$$

— the mean value of the 35 measurements

$$\bar{x} = \frac{\sum x_i}{35}$$

— the sum of the squares of the 35 measurements

$$\sum x_i^2$$

— the square of the sum of the 35 measurements

$$(\sum x_i)^2, \text{ then } \frac{(\sum x_i)^2}{35}$$

— the corrected sum:

$$SC = \sum x_i^2 - \frac{1}{35} (\sum x_i)^2$$

— the estimated variance:

$$v = \frac{SC}{34}$$

Hence the estimated standard deviation:

$$s = \sqrt{v}$$

3.2. Use of the average range method The number of measuring container bottles in the sample is 40.

3.2.1. Calculate as follows (see 3.2.4):

3.2.1.1. the average

$$\bar{x}$$

3.2.1.2. the average range value

$$\bar{R}$$

3.2.2. Calculate as follows:

3.2.2.1. The upper limit T_s : the sum of the indicated capacity (see Schedule 2 paragraph 5) and of the maximum permissible error corresponding to this capacity.

3.2.2.2. The lower limit T_i : the difference between the indicated capacity (see Schedule 2 paragraph 5) and the maximum permissible error corresponding to this capacity.

3.2.3. Acceptance criterion:

The batch shall be declared to comply with the Regulations if the numbers

$$\bar{x}$$

$$\bar{R}$$

$$\bar{x} + k' \cdot \bar{R} \leq T_s$$

$$\bar{x} + k'' \cdot \bar{R} \geq T_i$$

$$\bar{R} \leq F' (T_s - T_i)$$

where $k' = 0.668$,

and $F' = 0.628$.

3.2.4. Calculation of the mean value

$$\bar{x}$$

$$\bar{R}$$

3.2.4.1. to obtain

$$\bar{x}$$

— the sum of the 40 actual capacity measurements X_i :

$$\sum x_i$$

— the mean value of these 40 measurements of the 40 actual capacity measurements:

$$\bar{x} = \frac{\sum x_i}{40}$$

3.2.4.2. To obtain

$$\bar{R}$$

Divide the sample, in chronological order of selection, into eight sub-samples of five measuring container bottles each. Calculate as follows:

— the range of each of the sub-samples, i.e. the difference between the actual capacity of the largest and the smallest of the five bottles in the sub-sample; eight ranges are thus obtained: $R_1; R_2; \dots; R_8$

— the sum of the ranges of the eight sub-samples:

$$\sum R_i = R_1 + \bar{R}_2 + \dots + R_8$$

The average range

$$\bar{R}$$

$$\bar{R} = \frac{\sum R_i}{8}$$

Changes to legislation: There are currently no known outstanding effects for the The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019, SCHEDULE 4. (See end of Document for details)

Commencement Information

I11 Sch. 4 para. 11 in force at 31.12.2020 on IP completion day (in accordance with 2020 c. 1, **Sch. 5 para. 1(1)**), see [reg. 1](#)

Marginal Citations

M2 [S.I. 1986/1082](#) as amended by [S.I. 1994/2867](#), [S.I. 1995/1804](#), [S.I. 2001/55](#) and [S.I. 2009/3046](#).

Changes to legislation:

There are currently no known outstanding effects for the The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019, SCHEDULE 4.