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STANDARD**

**DRS
595-5**

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**Deltamethrin Pesticides — Specification —
Part 5: Ultra low volume liquid (ULV)**

ICS 65.100.10

Reference number

DRS 595-5: 2025

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Requests for permission to reproduce this document should be addressed to:

Rwanda Standards Board

P.O Box 7099 Kigali-Rwanda

KK 15 Rd, 49

Tel. +250 788303492

Toll Free: 3250

E-mail: info@rsb.gov.rw

Website: www.rsb.gov.rw

ePortal: www.portal.rsb.gov.rw

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Foreword

Rwanda Standards are prepared by Technical Committees and approved by Rwanda Standards Board (RSB) Board of Directors in accordance with the procedures of RSB, in compliance with Annex 3 of the WTO/TBT agreement on the preparation, adoption and application of standards.

The main task of technical committees is to prepare national standards. Final Draft Rwanda Standards adopted by technical committees are ratified by members of RSB Board of Directors for publication and gazettment as Rwanda Standards.

DRS 595-5 was prepared by Technical Committee RSB/TC 64, *Pesticides*.

In the preparation of this standard, reference was made to the following standard:

ES 704-5, *Pesticides — Deltamethrin — Part 5: Ultra low volume liquids (ULV) — Specification*

The assistance derived from the above source is hereby acknowledged with thanks.

DRS 595 consists of the following parts, under the general title *Deltamethrin Pesticides — Specification*:

- *Part 1: Technical material*
- *Part 2: Wettable Powder*
- *Part 3: Dustable powder*
- *Part 4: Aqueous suspension concentration*
- *Part 5: Emulsifiable concentrate*
- *Part 6: Ultra low volume liquid*
- *Part 7: Water dispersible granules*
- *Part 8: Emulsion, oil-in-water*
- *Part 9: Emulsifiable granules*
- *Part 10: Long lasting treated storage bag*

Committee membership

The following organizations were represented on the Technical Committee on *Pesticides* (RSB/TC 64) in the preparation of this standard.

Rwanda Food and Drugs Authority

Rwanda Forensic Institute

University of Rwanda/College of Sciences and Technology

Standards of Sustainability

CYIRA Ltd

Rwanda Inspectorate, Competition and Consumer Protection Authority

Rwanda Investigation Bureau

Rwanda Agriculture and Inputs Organization (RAIDO)

Rwanda Standards Board (RSB) – Secretariat

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Pesticides Deltamethrin — Specification — Part 5: Ultra low volume liquid

1 Scope

This Draft Rwanda Standard specifies the requirements, sampling and test methods for Ultra low volume liquid of deltamethrin used for agricultural purpose.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

RS 405, *Pesticides — Sampling*

RS 406, *Pesticides — Terminology*

3 Terms and definitions

For the purposes of this standard, the terms and definitions given in RS 406 apply.

4 Requirements

4.1 Active ingredient

4.1.1 Identity tests

The active ingredient shall comply with an identity test and, where the identity remains in doubt, shall comply with at least one additional test.

4.1.2 Deltamethrin content

The deltamethrin content shall be declared (g/kg or g/l at $20 \pm 2^\circ\text{C}$, Note2) and, when determined, the average measured content shall not differ from that declared by more than the following tolerances:

Declared content in g/l at $20 \pm 2^\circ\text{C}$	Tolerance limit
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>25 25-100 Note 1: in each range the upper limit is included	± 15% of the declared content ± 10% of the declared content
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4.2 General requirements

4.2.1 The material shall consist of technical deltamethrin, complying with the requirements RS xxx-1 together with any **solvents and necessary formulants**.

It shall be in the form of a stable liquid free from visible suspended matter and sediment.

4.2.2 Alphacypermethrin, technical employed in the formulation of this material shall conform to WD xxx-1.

The material shall consist of technical deltamethrin, complying with the requirements of FAO specification 333/TC (January 2015), together with any necessary formulants (Note 1). It shall be in the form of a stable homogeneous liquid, free from visible suspended matter and sediment.

4.3 Specific requirements

4.3.1 The product shall comply with the requirements given in table 1 when tested in accordance with the methods prescribed therein.

Table 1 — Specific requirements for deltamethrin ultra low volume liquid

S/N	Characteristics	Requirements	Test method
i.	Impurities, Deltamethrin R isomer, % by mass, max.	1	
ii.	Water content, g/kg, max.	5	
iii.	Acidity (as H ₂ SO ₄), g/kg	0.5	
iv.	Flash point, °C, min.	22.8	
v.	Kinematic viscosity range, mm ² /s, at 30°C	5-10	
vi.	Volatility/ evaporation rate, g/kg, max	500	

4.3.2 Storage stability

4.3.2.1 Stability at 0°C

After storage at $0 \pm 2^\circ\text{C}$ for 7 days, the volume of solid and/or liquid which separates shall not be more than 0.3 ml.

4.3.2.2 Stability at 54°C

After storage at $54 \pm 2^\circ\text{C}$ for 14 days, the product shall continue to comply with clauses 4.1.2, 4.3.1 (i) and (iii).

Note: The sample should be stored in sealed glass ampoules.

5 Packaging

The product shall be packaged in accordance with RS 565-1.

6 Labelling and marking

The labelling and marking of the product shall be done in accordance with DRS 578.

7 Retail, distribution, storage and handling

The product shall be handled in accordance with DRS 579.

NOTE Attention is drawn to the appropriate national and/or international regulations on the handling and transport of flammable materials.

8 Sampling

Sampling shall be done in accordance with RS 405.

9 Disposal

Disposal of bulk quantities of obsolete pesticides shall be in accordance with DRS 589.

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Annex A
(normative)

Annex title

A.1 General

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Bibliography

- [1] FAO Specifications and evaluations for agricultural pesticides for *Deltamethrin*

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