



**RWANDA
STANDARD**

**WD
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**Cypermethrin Pesticides — Specification
— Part 4: Ultra low volume liquids (ULV)**

ICS 65.100.10

Reference number

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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 580-4 was prepared by Technical Committee RSB/TC 64, *Pesticides*.

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

ES 705-4: Pesticides — Cypermethrin — Part 4: Ultra Low Volume Liquid (ULV) — Specification

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

RS 580 consists of the following parts, under the general title *Cypermethrin pesticides — Specification*:

- Part 1: Technical material (TC)
- Part 2: Emulsifiable concentrates (EC)
- Part 3: Wettable powders (WP)
- Part 4: Ultra low volume liquids (ULV)
- Part 5: Technical concentrates (TK)

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

P-TECHNIKS Ltd

Rwanda Inspectorate, Competition and Consumer Protection Authority

Rwanda Investigation Bureau

RAIDO

Rwanda Standards Board (RSB) – Secretariat

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Introduction

A paragraph.

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Cypermethrin Pesticides — Specification — Part 4: Ultra low volume liquids (ULV)

1 Scope

This Draft Rwanda Standard specifies the requirements for the cypermethrin Ultra Low Volume liquids (ULV) for plant protection 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*

DRS 580-1, *Cypermethrin pesticides — Specification — Part 1: Technical material (TC)*

DRS 590, *Pesticides — Determination of total cypermethrin content*

DRS 591, *Pesticides — Determination of total cypermethrin content and diastereo isomer ratio*

ISO 2719, *Determination of flash point — Pensky-Martens closed cup method*

RS 565-2, *Packaging of Pesticides — Requirements — Part 2: Liquid pesticides*

DRS 578, *Pesticides — Guidelines on good labelling practices*

DRS 579, *Pesticides — Guidelines for retail, distribution, storage and handling*

DRS 589, *Pesticides — Guidelines for the disposal of bulk quantities of obsolete pesticides*

ASTM E1064-12, *Standard Test Method for water in organic liquids by Coulometric Karl Fischer Titration*

RS ASTM D 6450-12, *Standard Test Method for Flash Point by Continuously Closed Cup (CCCFP) Tester*

3 Terms and definitions

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

4 Requirement

4.1 General requirements

4.1.1 Description

The material shall consist of technical cypermethrin, complying with the requirements of DRS 580-1 with any solvents and other necessary formulants. It shall be in the form of a stable liquid free from visible suspended matter and sediment.

4.1.2 Active ingredient

4.1.2.1 Identity tests

The identity test shall be carried out in accordance with DRS 590, where the identity of the active ingredient is in doubt and the isolated active ingredient shall comply with at least one additional test.

4.1.2.2 Cypermethrin

The cypermethrin content determination shall be declared in g/kg or g/l at 20°C and when determined in accordance with DRS 590, the content obtained shall not differ from that declared by more than the following amounts:

Declared content	Permitted tolerance
Up to 25g/kg	± 15% of the declared content
Above 25 up to 50 g/l or g/kg	±10% of the declared content

NOTE If the buyer requires both g/kg and g/l at 20°C, then in case of dispute the analytical results shall be calculated as g/kg.

4.1.2.3 Cis-isomer content

The *cis*-isomer content shall be declared and shall be between 40% minimum and 60% maximum of the declared cypermethrin content.

When determined in accordance with DRS 591, the permitted tolerance shall be ± 10% of the declared *cis*-isomer content.

4.2 Specific requirements

The specific requirements for the cypermethrin pesticides given in Table 1 shall be done when tested in accordance with test methods given therein.

Table 1 — The specific requirements for the cypermethrin pesticides

S/N	Parameter	Requirement	Test methods
i.	Water content, g/kg	2	ASTM E1064-12
ii.	Physical properties:	Flash point	Not lower than the minimum declared flash point
		Kinematic viscosity	±20%
iii.	Storage stability:	Stability at 0°C (7 days at 0±2)	0.3 ml (average content)
		Stability at 54°C (14 days at 54±2)	95 %

5 Packaging

The EC cypermethrin pesticides shall be packaged in accordance with RS 565-2.

6 Labelling and marking

The labelling and marking of EC cypermethrin pesticides shall be done in accordance with DRS 578.

7 Retail, distribution, storage and handling

The cypermethrin pesticides 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

Samples shall be taken in accordance with RS 405

9 Disposal

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

Bibliography

[1] ISO/IEC Directives, Part 2, *Rules for the structure and drafting of International Standards*, 2016

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