



**RWANDA  
STANDARD**

**DRS  
581-3**

First edition  
2024-mm-dd

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**Alpha-cypermethrin pesticides —  
Specification — Part 3: Suspension  
concentrate**

ICS 65.100.10

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Reference number  
DRS 581-3: 2024

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In order to match with technological development and to keep continuous progress in industries, standards are subject to periodic review. Users shall ascertain that they are in possession of the latest edition

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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 581-3 was prepared by Technical Committee RSB/TC 64, *Pesticides*.

DRS 581 consists of the following parts, under the general title *Alpha-cypermethrin pesticides — Specification*

- *Part 1: Technical specification*
- *Part 2: Wettable powder*
- *Part 3: Suspension concentrate*
- *Part 4: Emulsifiable concentrate*
- *Part 5: Ultra low volume liquid*

## 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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## Alpha-cypermethrin — Specification — Part 3: Suspension concentrate

### 1 Scope

This Draft Rwanda Standard specifies the requirements, sampling and test methods for suspension concentrate of alpha-cypermethrin 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*

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*

### 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 Alpha-cypermethrin content

The alpha-cypermethrin 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/kg or g/l at 20 ± 2°C	Tolerance limit
up to 25	± 15% of the declared content
above 25 up to 100	± 10% of the declared content
above 100 up to 250	± 6% of the declared content
Note 1: in each range the upper limit is included.	

## 4.2 General requirements

The product shall consist of a homogeneous mixture of technical alpha-cypermethrin together with filler(s) and any other necessary formulants.

It shall be in the form of a freely flowing whitish fine powder, free from visible extraneous matter and hard lumps.

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

## 4.3 Specific requirements

### 4.3.1 Physical properties

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

**Table 1 — Physical properties for Alpha-cypermethrin wettable powder**

S/N	Characteristics	Requirements	Test method
i.	pH, range	5-8	
ii.	Pourability, % by mass, maximum residue	3	
iii.	Wet sieve test, % by max, max.,	2 shall be retained on 75µm test sieve	
iv.	Suspensibility, % by max, min., after 30 min at 30 ± 2°C	60 shall be in suspension after 30min	
v.	Spontaneity of dispersion, % by max, min., at 30 ± 2°C	60 shall be in suspension after 5min	
vi.	Persistent foam, ml after 1 min	60	



#### 4.3.1.2 Storage stability

##### 4.3.1.2.1 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.

##### 4.3.1.2.2 Stability at elevated temperature

After storage at  $54 \pm 2^\circ\text{C}$  for 14 days, the determined average active ingredient content must not be lower than 95% relative to the determined average content found before storage.

Note: Samples of the formulation taken before and after the storage stability test should be analyzed concurrently after the test in order to reduce the analytical error.

## 5 Packaging

The product shall be packaged in accordance with RS 565-2.

## 6 Labelling and marking

The pesticide shall be labelled and marked in accordance with DRS 578.

## 7 Retail, distribution, storage and handling

The pesticide 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 carried out 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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**Annex B**  
(informative)

**Which styles correspond to which element — Quick reference guide**

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

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