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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 21459.4-2025

Replacing GB/T 21459.4-2008

**Specification for drafting standards of fungal oil miscible
flowable concentrates (OF)**

真菌农药油悬浮剂产品标准编写规范

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**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document is Part 4 of GB/T 21459. GB/T 21459 has already published the following parts.

---GB/T 21459.1 Specifications for Drafting Standards for Technical Grades of Fungal Pesticides;

---GB/T 21459.2 Specifications for Drafting Standards for Fungal Pesticide Powders;

---GB/T 21459.3 Specifications for Drafting Product Standards for Wettable Powder Fungal Pesticides;

---GB/T 21459.4 Specifications for Drafting Product Standards for Fungal Pesticide Oil Suspension Concentrates;

---GB/T 21459.5 Specifications for Drafting Standards for Fungal Pesticide Bait Products. This document supersedes GB/T 21459.4-2008 "Specifications for Drafting Product Standards for Fungal Pesticide Oil Suspension Concentrates" and is consistent with GB/T 21459.4- Compared to.2008, aside from structural adjustments and editorial changes, the main technical changes are as follows:

- a) The terminology and definitions have been changed (see Chapter 3, Chapter 3 of the.2008 edition);
- b) The "Bacterial Count" control item has been changed (see 4.3,.2008 version 4.3);
- c) The "Viable Productivity" control item has been removed (see 4.3 in the.2008 version);
- d) The "Chemical Impurities" control item and determination method have been deleted (see sections 5.6 of the.2008 edition);
- e) The "toxicity" control items and determination methods have been removed (see

1 Scope

GB/T 21459.4-2025 is the Chinese national standard covering the oil flowable form - the spore count and viability in an oil carrier that protects them from drying, the suspension stability and the redispersibility after settling, the viscosity, and the compatibility with the oil used for ultra-low-volume spraying. Part 4 of the series. It replaces GB/T 21459.4-2008, in force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026, replacing GB/T 21459.4-2008.

This document specifies the technical requirements, test methods, inspection rules, acceptance procedures, quality guarantee period, and standard specifications for fungal pesticide oil suspension products. The content and writing requirements for documents, labels, packaging, and storage and transportation. This document applies to the drafting of product standards for fungal pesticide oil suspensions.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 1600-2021 Method for Determination of Moisture Content in Pesticides

GB/T 1601 Method for Determination of pH Value of Pesticides

GB/T 1604 Rules for Acceptance of Commercial Pesticides

GB/T 1605 Sampling Methods for Commercial Pesticides

GB 3796 General Rules for Pesticide Packaging

GB/T 14825-2023 Method for Determination of Pesticide Suspension Rate

GB/T 16150-1995 Method for Determination of Fineness of Pesticide Powders and Wettable Powders

GB/T 19136-2021 Determination of thermal storage stability of pesticides

GB/T 19137-2003 Determination of Low-Temperature Stability of Pesticides

GB/T 28135 Determination of Acidity (Alkalinity) of Pesticides - Indicator Method

GB/T 31737 Determination of Pesticide Dumping Properties

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 spore The reproductive body of a fungus.

Note. There are various types, including conidia, budspores, and chlamydospores.

3.2 Conidia Colorless or colored spores produced by conidiophore cells (terminal/lateral, chain/clustered, various shapes and sizes, unicellular/multicellular) Asexually reproducing cells.

Note. This is the most common spore type in fungal pesticides.

3.3 microbial density The effective ingredient contained per unit mass or volume of fungal pesticides is the number of live bacterial colonies.