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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 14825-2023

Replacing GB/T 14825-2006

Determination method of suspensibility for pesticides

农药悬浮率测定方法

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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 replaces GB/T 14825-2006 "Method for Determination of Pesticide Suspension Rate". Compared with GB/T 14825-2006, except for structural adjustments In addition to editorial changes, the main technical changes are as follows:

---Increased the suspension concentration range (see 4.2.4.1);

---Changed the test temperature (see 4.2.4.1,

4.1.3 of the.2006 version);

---The calculation formula of the weight method has been changed (see 4.3.5,

4.5.5 of the.2006 version);

---Added standard hard water preparation method for dissolving water-soluble packaging bags (see Appendix B). Please note that some content in this document may be subject to patents. The publisher of this document assumes no responsibility for identifying patents. This document is proposed by China Petroleum and Chemical Industry Federation. This document is under the jurisdiction of the National Pesticide Standardization Technical Committee (SAC/TC133). This document was drafted by: Syngenta (Suzhou) Crop Protection Co., Ltd., Jiangsu Dongbao Agrichemical Co., Ltd., Jiangsu Longdeng Chemical Co., Ltd. Co., Ltd., Hunan Haohua Chemical Co., Ltd., Huizhou Yinnong Technology Co., Ltd., Jiamusi Heilong Pesticide Co., Ltd., Shandong Wei Fangrunfeng Chemical Co., Ltd., Zhejiang Xin'an Chemical Group Co., Ltd., Guangxi Sujing Technology Co., Ltd., Shandong Luba Chemical Co., Ltd. Co., Ltd., Sinochem Chemical Research Institute Co., Ltd., and Shenyang Shenyang Chemical Research Institute Testing Technology Co., Ltd. The main drafters of this document. Li Na, Wang Fujun, Xu Chengchen, Feng Xiuzhen, Ye Shenglong, Cao Saiqiong, Wei Shadi, Xiao Caigen, Tian Maoying, Yao Eryan, Tan Pan, Han Zengrui,

Yan Cong, Nan Yan, Li Xiaoyun, Zhang Jiwei, Yang Lin, Xing Hong. The previous versions of the documents replaced by this document are as follows:

---First published as GB/T 14825-1993 in.1993, first revised in.2006;

---This is the second revision. Method for determination of pesticide suspension rate

1 Scope

GB/T 14825-2023 is the Chinese national standard on determination method of suspensibility for pesticides, in the field of agriculture. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 7 September 2023 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 April 2024. Classification: ICS 65.100, CCS G23. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document describes the active ingredient method and the gravimetric method for determining the suspension rate of pesticide formulations. This document is applicable to the determination of the suspension rate of pesticide preparations diluted with water to form a suspension.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document.

GB/T 603 Preparation of preparations and products used in chemical reagent test methods

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 standard hard waterD standardwaterD Water with a hardness of 342 mg/L, a molar concentration ratio of calcium and magnesium ions of 4.1, and a pH value of 6.0~7.0.

3.2 water soluble bag water soluble bag Pesticide solid preparation packaging bags made of polymer water-soluble film.

4 Test methods

Warning. Personnel using this document should have practical experience in laboratory work. This document does not address all security issues. user Responsibility for taking appropriate safety and health measures.

4.1 General provisions The reagents and water used in this document refer to analytical grade reagents and deionized water unless other requirements are noted.

4.2 Active ingredient method

4.2.1 Principle Use standard hard water to prepare the suspension of the sample to be tested into a suspension with appropriate mass concentration. Under the specified conditions, let it stand in the measuring cylinder for a certain period of time During the period, remove the upper 9/10 of the suspension, use the active ingredient method to measure the mass of the active ingredients in the bottom 1/10 of the suspension, and calculate the suspension rate.

4.2.2 Reagents and solutions Standard hard water. Standard hard water D (unless otherwise specified), the preparation method is carried out according to the method described in Appendix A.