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

GB/T 28137-2011

**Testing method of persistent foaming for pesticides
(English Translation)**

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Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard uses the redrafting method to modify and use CIPAC MT 47

"Persistent foaming" of Collaborative International Pesticides Analytic Council.

The main differences between this Standard and CIPAC MT 47 "Persistent foaming" are:

-- The difference of the use of standard hard water: this Standard specifies the use of standard hard water D (342 mg/L). CIPAC MT 47 specifies the use of standard hard water C (500 mg/L).

-- The difference of sampling amount: this Standard specifies a sampling amount of 1.0 g. CIPAC MT 47 does not specify the sampling amount.

-- The difference of the way in reversing the measuring cylinder: the way in reversing the measuring cylinder which is specified in this Standard is that the measuring cylinder is reversed, with the middle of the cylinder as the center, by 180° up and down for 30 times (2 s each time). CIPAC MT 47 does not indicate whether the bottom of the cylinder or the middle of the cylinder is the center.

-- The difference of the standing time of the measuring cylinder: this Standard specifies that the foam volume shall be recorded at 1 min ± 10 s after the measuring cylinder is inverted up and down for 30 times; CIPAC MT 47 specifies that the foam volume shall be recorded at 10 s ± 1 s, 1 min ± 10

s, 3 min $\pm$ 10 s, 12 min $\pm$ 10 s.

This Standard was proposed by China Petroleum and Chemical Industry Federation.

This Standard shall be under the jurisdiction of National Technical Committee

133 on Pesticides of Standardization Administration of China (SAC/TC 133).

The organizations that are responsible for the drafting of this Standard:

Zhejiang Research Institute of Chemical Industry.

The organizations that participate in the drafting of this Standard: Jiangsu

Kuaida Agrochemical Co., Ltd., Hefei Xingyu Chemical Co., Ltd.

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Testing Method of Persistent Foaming for Pesticides

1 Scope

This Standard specifies the testing method of persistent foaming for pesticides.

This standard applies to pesticide products that need to be diluted with water before application.

2 Normative references

The following documents are indispensable for the application of this document.

For dated references, only the dated version applies to this document. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 601, Chemical reagent. Preparations of reference titration solutions

GB/T 603, Chemical reagent. Preparations of reagent solutions for use in test methods

GB/T 5451-2001, Testing method for the wettability of dispersible powders of pesticides

3.1 Method summary

Mix a specified amount of the sample with standard hard water; let it stand still; then, record the foam volume.

3.2 Reagents and solutions

Water: grade-3 water;

Magnesium oxide: before use, dry it at 105°C for more than 2 h;

Calcium carbonate: before use, dry it at 105°C for more than 2 h;

Hydrochloric acid solution: $c(\text{HCl}) = 0.1 \text{ mol/L}$, prepare according to GB/T 601;

Hydrochloric acid solution: $c(\text{HCl}) = 1.0 \text{ mol/L}$, prepare according to GB/T 601;

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