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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB 28152-2011

Pyrimethanil aqueous suspension concentrates

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(English Translation)

Issued on: December 30, 2011 **Implemented on: April 15, 2012**

Issued by: Standardization Administration of China

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5.1 Marking, labeling, packaging
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Foreword

The standard Chapter 3, Chapter 5 is mandatory, the rest are recommended.

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

Please note that some content of this document may involve patents, the issuing authority of this document does not assume responsibility for the identification of these patents.

The standard proposed by China Petroleum and Chemical Industry Association.

This standard by the National Standardization Technical Committee on Pesticides

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(SAC/TC133) centralized.

1 Scope

This standard specifies the pyrimethanil SC requirements, test methods and marking, labeling, packaging, storage and transportation, the guarantee period.

This standard applies to the suspension of pyrimethanil original drug with suitable additives and fillers processed into.

Note: Other name, structural formula and basic physicochemical parameters pyrimethanil see Appendix A.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

Determination of GB/T 1601 Pesticides pH value GB/T 1604 Goods pesticide regulations for acceptance GB/T 1605-2001 Sampling Method commercial pesticides GB 3796 pesticide packaging General GB/T 6682-2008 analytical laboratory use specifications and test methods (ISO 3696. 1987, MOD) GB/T 8170-2008 revised value represents about rules and limit values and judgment GB/T 14825 method for determination of pesticide suspension GB/T 16150 pesticide powder, wettable powder fineness measurement method GB/T 19136 Determination of Pesticide Thermal storage stability GB/T 19137 Pesticide cryogenic stability Determination

3.1 Composition and appearance

This product should be compliant pyrimethanil original drug, additives and fillers processed and should be mobile, easy to measure the volume of liquid suspension, deposit Discharge may occur during precipitation, but after shaking, restitution should, there should be no lumps.

3.2 Technical Specifications

Pyrimethanil SC shall meet the requirements of Table 1.

Table 1 pyrimethanil SC Control Project Index

project

index

20% 30% 40%

Pyrimethanil mass fraction /% 20.0 40.0 2.0-2.0 1.5-1.5 1.2-1.2 30.0 pH range 6.0 to 10.0

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Suspension rate /% >= 90

Table 1 (continued)

project

index

20% 30% 40%

Pourability /%

After pouring the residue <= 5.0 After washing the residue <= 0.5 Wet sieve test (through 75μm test sieve) /% >= 98 Persistent foaming (foam volume after 1min)/mL <= 30 Low temperature stability of a /% qualified Thermal storage stability of a /% qualified when a normal production, low temperature stability, thermal storage stability test was measured at least once every three months.

Test Method 4

Safety Tips. Use of this standard shall have practical experience of laboratory personnel work. This standard does not point out all of the safety issues. Make with those who have the responsibility to take appropriate safety and health practices and to ensure compliance with the relevant national regulations.

4.1 General provisions

This standard reagents and water in the absence of other requirements specified, refers to three analytical reagent and GB/T 6682-2008 specified in water. Test results determined in accordance with GB/T 8170-2008 4.3.3 Rounding the value comparison method.

4.2 Sampling

According to GB/T 1605-2001 in "liquid formulations sampling" approach. Determining sample package using a random number table method; the final sample size not less than 600mL.

4.3 Identification Test

HPLC --- The identification test can be carried out simultaneously with the determination of the mass fraction of pyrimethanil. In the same chromatographic operating conditions , The retention time of the standard solution and the sample solution to a peak of pyrimethanil retention time, the relative difference should be less than 1.5%.

Gas Chromatography --- The identification test can be carried out simultaneously with the determination of the mass fraction of pyrimethanil. Under the same chromatographic operating conditions, the test the retention time of the sample solution and the standard solution to a peak of pyrimethanil retention time, the relative difference should be less than

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1.5%.

When using the above method for identification of effective ingredients have questions, other effective methods can be used for identification.

4.4.1 Method summary

Sample dissolved in mobile phase, methanol aqueous phosphoric acid as the mobile phase, use as filler to C18 stainless steel column and UV detector (300nm), the sample of Pyrimethanil high performance liquid chromatography, external standard. It can also be measured using gas chromatography, operation See Appendix B. for conditions

4.4.2 Reagents and solutions

Methanol. HPLC grade;

Water. The new secondary steam distilled water;

Phosphoric acid;

Pyrimethanil standard. Known pyrimethanil mass fraction w>=98.0%.

4.4.3 Instruments

High performance liquid chromatography. a variable wavelength UV detector;

Chromatographic data processor;

Column. 250mm x 4.6mm (id) stainless steel column contents C18,5μm filler;

Filter. pore size of about 0.45μm;

Micro injector. 50μL;

Quantitative sample line. 5μL;

Ultrasonic cleaner.

4.4.4 HPLC operating conditions

Mobile phase. [Psi] [methanol. water (adjusted with phosphoric acid to pH = 3)] = 75.25, filtered through a filter membrane and degassed;

Flow rate. 1.0mL/min;

Column temperature. room temperature;

Detection wavelength. 300nm;

Injection volume. 5μL;

Retention time. pyrimethanil about 5.5min.

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