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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB 28147-2011

Pyridaben wettable powders

哒螨灵可湿性粉剂

(English Translation)

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Preview: page 1 of 5 shown, 7 in the full document. Complete English PDF, instant download:
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Table of Contents

Foreword
1 Scope
2 Normative references
3 Requirements
3.1 Composition and appearance
3.2 Technical Specifications
4.1 General provisions
4.2 Sampling
4.3 Identification Test
4.4 Determination of the mass fraction of pyridaben
4.6 Determination of the suspension rate
4.7 Determination of wetting time
4.8 Determination of fineness
4.9 Thermal storage stability test
4.10 Product inspection and acceptance
5 Marking, labeling, packaging, storage, security, guarantee
5.1 Marking, labeling, packaging
5.2 Storage
5.3 Security
5.4 Warranty Period

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 (SAC/TC133) centralized.

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1 Scope

This standard specifies pyridaben WP requirements, test methods and marking, labeling, packaging, storage and warranty.

This standard applies to processed from pyridaben the original drug, suitable additives and fillers made of pyridaben WP.

Note: Other name, structural formula and basic physicochemical parameters pyridaben 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 5451 WP Pesticide wettability measurement method 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 14825-2006 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

3.1 Composition and appearance

This product should be compliant pyridaben the original drug with suitable additives and fillers processing is made uniform loose powder, there should be no lumps.

3.2 Technical Specifications

Pyridaben WP should meet the requirements of Table 1.

Table 1 pyridaben WP Control Project Index

project

index

20% 30%

Pyridaben mass fraction /% 20.0 30.0 1.5-1.5 1.2-1.2 pH range of 5.0 to 9.0 Suspension rate /% >= 75 Wetting time/s <= 90

Table 1 (continued)

Preview: page 3 of 5 shown, 7 in the full document. Complete English PDF, instant download:
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project

index

20% 30%

Fineness (through 44μm test sieve) /% >= 96 Thermal storage stability test a qualified when a normal production, heat 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 The "rounding value comparison method".

4.2 Sampling

According to GB/T 1605-2001 "on solid preparation sampling" approach. Determining sample package using a random number table method; the final sample size not less than 300g.

4.3 Identification Test

Gas Chromatography --- The identification test can be carried out simultaneously with the determination of the mass fraction of pyridaben. Under the same chromatographic operating conditions, the test A sample solution peak retention time compared with standard sample solution PYRIDABEN chromatographic retention time, the relative difference should be less than 1.5%.

Liquid chromatography --- The identification test can be carried out simultaneously with the determination of the mass fraction of pyridaben. Under the same chromatographic operating conditions, the test A sample solution peak retention time compared with standard sample solution PYRIDABEN chromatographic retention time, the relative difference should be less than 1.5%.

Preview: page 4 of 5 shown, 7 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/gb-28147-2011

4.4.1.1 Method summary

Sample was dissolved in methanol, acetonitrile and water as the mobile phase, use as filler in Nova-PakC18 stainless steel column and UV detector (240nm), the sample of PYRIDABEN high performance liquid chromatography and determination.

4.4.1.2 Reagents and solutions

Methanol;

Acetonitrile. chromatographic pure;

Water. The new secondary steam distilled water;

Pyridaben Sample. Known pyridaben mass fraction w>=99.0%.

4.4.1.3 Instruments

High performance liquid chromatography. a variable wavelength UV detector;

Chromatographic data processor or workstation;

Column. 150mm x 3.9mm (id) stainless steel column, built-Nova-PakC18,5μm filler (or equivalent effect Chromatography column);

Filter. pore size of about 0.45μm;

Micro injector. 50μL;

Quantitative sample line. 5μL;

Ultrasonic cleaner.

4.4.1.4 HPLC operating conditions

Mobile phase. Psi (CH3CN.H2O) = 85.15;

Flow rate. 1.0mL/min;

Column temperature. room temperature (temperature change should not exceed 2 °C);

Detection wavelength. 240nm;

Injection volume. 5μL;

Retention time. pyridaben about 5.6min.

It said operating parameters are typical, according to the characteristics of different instruments, given operating parameters adjusted as appropriate, in order to obtain the best results.

Typical pyridaben WP HPLC is shown in Figure 1.

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