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PEOPLE'S REPUBLIC OF CHINA**

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Prometryn wettable powders

扑草净可湿性粉剂

(English Translation)

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Foreword

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

Appendix A of this standard is the data appendix.

Since the implementation of this standard, the original industry standard HG2202-1991 "Prometryne WP" void.

The standard proposed by China Petroleum and Chemical Industry Association.

This standard by the National Standardization Technical Committee on Pesticides (SAC/TC133) centralized.

1 Scope

This standard specifies the Prometryne WP requirements, test methods and marking, labeling, packaging, storage and transportation.

This standard applies to the Prometryne original drug, suitable additives and fillers

processed Prometryne WP.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 1600 Determination of Water Pesticides 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 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 Prometryne original drug with suitable additives and fillers processing is made uniform loose powder, there should be no lumps.

3.2 Technical Specifications

Prometryne WP should meet the requirements of Table 1.

Table 1 Prometryne WP Quality Control Project Index

project

index

50% 40% 25%

Prometryne mass fraction /% 50.0 + 40.0 + 2.0-2.0 2.5-2.5 1.5-1.5 25.0 + Moisture /% ≤ 3.0 pH range 6.0 to 10.0 Suspension rate /% ≥ 70 Wetting time/s ≤ 120 Fineness (through 45μm test sieve) /% ≥ 98 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

4.1 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.

4.2 Identification Test

Gas Chromatography --- The identification test can be carried out simultaneously with the determination of the mass fraction of Prometryne. Under the same chromatographic operating conditions, the test A sample solution peak retention time with the standard solution flutter grass net retention time in peaks, the relative difference should be 1.5% Fewer.

4.3.1 Method summary

Sample was dissolved in chloroform to triadimefon as internal standard, the use of the inner wall of the bonded Carbowax 20M capillary column and flame Ionization detector to sample Prometryne gas chromatographic separation and determination. You can also use packed column gas chromatography, chromatographic conditions Senate See Appendix A.

4.3.2 Reagents and solutions

Chloroform;

Triadimefon. should not interfere with the analysis of impurities, $\geq 95\%$;

Prometryne Sample. Known Prometryne mass fraction $\geq 99.0\%$;

Internal standard solution. Weigh 8.6g triadimefon, placed 1000mL volumetric flask with chloroform to dissolve and dilute to volume, shake.

4.3.3 Instruments

Gas chromatograph. with a hydrogen flame ionization detector;

Chromatographic data processor or chromatography workstation;

Column. 30m x 0.32mm (. I.d) capillary column, wall-bonded polyethylene glycol 20M, film thickness 0.25 μ m;

Micro injector. 10 μ L.

4.3.4 GC operating conditions

Temperature ($^{\circ}$ C) Temperature. 195 gasification chamber. 230, detection chamber. 230;

Gas flow rate (mL/min). carrier gas (N₂) 2.0, hydrogen gas 30, air 300;

Injection volume (μ L). 1.0;

Retention time (min). Prometryne about 4.2, internal standard (triadimefon) about 5.6.

GC operating conditions described above, the Department of typical operating parameters. According to the characteristics of different instruments, given operating parameters

adjusted as appropriate, in order to obtain the best results. Typical Prometryne wettable powder with a gas chromatograph internal standard is shown in Figure 1.

1 --- Prometryne;

2 --- internal standard (triadimefon).

Figure 1 Prometryne WP and the internal standard gas chromatograph

4.3.5.1 Preparation of standard solution

Weigh Prometryne standard 0.1g (accurate to 0.0002g), placed in 15mL stoppered glass bottle with a pipette moved 10mL internal standard Solution, shake.

4.3.5.2 Preparation of the sample solution

It weighs about 0.1g sample containing Prometryne of (accurate to 0.0002g), placed in 15mL stoppered glass bottle, in use with 4.3.5.1 with a pipetted into internal standard solution 10mL, shake.

4.3.5.3 Determination

Under these operating conditions, the instrument until a stable baseline, the number of continuous injection doses of the standard solution, calculated for each needle Prometryne and the internal standard peak area Repeatability ratio, when two needles Prometryne relative change compared with the internal standard peak area of less than 1.2%, according to the standard solution, sample to be adjacent Solution, sample solution, the order of the standard solution was measured.

4.3.6 Calculation

The two needle sample solution and measured before and after the two doses of the standard sample solution Prometryne and the internal standard peak area ratio in the average respectively.

Prometryne sample mass fraction of 1 (%), according to equation (1).

Where.

--- Prometryne standard mass fraction, expressed as a percentage.

4.3.7 Allowable difference

The difference between two parallel determination results, 25% should be no more than 0.5%, 50% and 40% should not exceed 1.0%, respectively, and the arithmetic mean as a measurement result.