

ICS 65.100.20
CCS G 25



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

GB 22617-2008

Fenoxaprop-P-ethyl emulsifiable, oil in water

精噁唑禾草灵水乳剂

(English Translation)

Issued on: December 17, 2008

Implemented on: June 1, 2009

Issued by: Standardization Administration of China

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Foreword

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

Appendix A of this standard is an informative annex.

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 fine Oxazole diclofop water emulsion of requirements, test methods and marking, labeling, packaging, storage and transportation.

This standard applies to the fine Oxazole diclofop original drug, refined fenclorazole security agents and additives made of Oxazole diclofop water emulsions.

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.

Determination of GB/T 1601 Pesticides pH value GB/T 1603 Determination of emulsion stability of pesticide GB/T 1604 Goods pesticide regulations for acceptance GB/T 1605-2001 Sampling Method commercial pesticides GB/T 4472 chemical product density, relative density measurement General GB 4838 EC pesticide packaging GB/T 14825 method for determination of pesticide suspension GB/T 19136 Determination of Pesticide Thermal storage stability GB/T 19137 Pesticide cryogenic stability Determination

3 Requirements

3.1

Composition and appearance. This product should be compliant oxazole diclofop fine original drug, fenchlorazole security agents with suitable additives in the aqueous phase to form A stable emulsion, long after allowing a small amount stratification, gentle shaking or agitation should be uniform.

3.2

oxazole diclofop fine water emulsion should meet the requirements of Table 1.

Table 1 oxazole diclofop fine water emulsions Control Project Index

project

index

6.9% 7.5% 69g/L

Oxazole diclofop mass fraction a /% or concentration (20 °C) / (g/L) 6.9 + 7.5 + 0.7-0.7 0.7-0.7 0.7-0.7 6.8 + - - 69 + 7-7 Fenchlorazole mass fraction b /% >= declared value (accurate to 1 after the decimal point) pH range of 5.0 to 9.0 Emulsion stability (diluted 200 times) Qualified Pourability After pouring the residue mass fraction /% <= 5.0 After washing the residue mass fraction /% <= 0.5 (After 1min) Persistent foaming/mL <= 25 Low temperature stability Qualified c Thermal storage stability c qualified when a dispute arises when quality, to fine Oxazole diclofop mass fraction of arbitration.

b whether to add security agents decided by crop objects; allows the use of other security agents, the detection method and the corresponding index pesticide requirements can be standardized across the country Technical Committee obtained.

C When normal production, low-temperature storage stability and thermal stability test, every three months, at least once.

Test Method 4

4.1 Sampling

According to GB/T 1605-2001 5.3.2 in "liquid formulation sampled" in. Determining sample package using a random number table method, the final sample the amount of not less than 1000mL.

4.2 Identification Test

HPLC --- The identification test with fine Determination oxazole diclofop content simultaneously. In the same chromatographic operation Under the conditions, the sample solution is a two peak retention time Azole grasses standard solution for the retention time of the two peaks of enantiomers relative of the difference should be less than 1.5%.

4.3 Determination of fine azole diclofop, fenchlorazole mass fraction

Determination 4.3.1 oxazole diclofop, fenchlorazole mass fraction

4.3.1.1 Method summary

Sample dissolved in mobile phase, n-hexane and isopropanol as the mobile phase, use ZORBAXSIL as filling a stainless steel column and variable wave Long UV detector, of the sample Oxazole diclofop, fenchlorazole normal phase HPLC separation and determination, external standard. also may Using capillary gas chromatography Oxazole diclofop mass fraction, chromatographic operating conditions, see Appendix A.

4.3.1.2 Reagents and solutions

Hexane. chromatography;

Isopropanol. chromatography;

Oxazole diclofop standard. a known mass fraction $\geq 99.0\%$;

Fenchlorazole standard. a known mass fraction $\geq 99.0\%$.

4.3.1.3 Instruments

High performance liquid chromatography. a variable wavelength UV detector;

Chromatographic data processor or chromatography workstation;

Column. 250mm x 4.6mm (i.d.) Stainless steel column, built ZORBAXSIL, 5 μ m particle size of the filler;

Filter. pore size of about 0.45 μ m;

Micro injector. 100 μ L;

Quantitative sample line. 10 μ L;

Ultrasonic cleaner.

4.3.1.4 HPLC operating conditions

Mobile phase. [Psi] (n-hexane. isopropanol) = 90.10;

Flow rate. 0.8mL/min;

Column temperature. room temperature;

Detection wavelength. 230nm;

Injection volume. 10 μ L;

keep time.

Oxazole diclofop 4.8min, fenchlorazole 5.5min.

The above operating conditions, the Department of typical operating parameters, according to the characteristics of different instruments and columns for a given operating parameters to make appropriate adjustments to to obtain the best results. typical Oxazole diclofop HPLC water emulsion is shown in Figure 1.

1 --- oxazole diclofop;

2 --- fenchlorazole.

1 fineazole diclofop water emulsion by high performance liquid chromatogram

4.3.1.5.1 Preparation of standard solution

Weigh

Oxazole diclofop standard 0.05g, fenchlorazole standard 0.03g (accurate to 0.0002g), placed in 100mL volumetric flask.

80mL mobile phase in an ultrasonic bath shaking 5min make sample dissolution, removed after cooling to room temperature, dilute to the mark with the mobile phase, Shake well.

4.3.1.5.2 Preparation of sample solution

Weigh containing

0.05g oxazole diclofop sample (accurate to 0.0002g), placed in 100mL flask, add 80mL mobile phase in the ultrasonic bath shaking 5min make sample dissolution, removed after cooling to room temperature, mobile phase and dilute to the mark, shake, filtration.