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DESCRIPTION CN106221703

The present invention relates to an ecological agriculture and forestry soil bactericidal repair agent which comprises the following components: boron mud, potassium humate, potassium polyaspartate, brown sugar, carotene, spartina alternifolia, peanut shell, flower tree powder, Kumquat powder, ethyl allicin, natural brassinolide, fulvic acid, clove oil, pepper oil, tung oil, nano zinc oxide, ammonium tripolyphosphate, honey, potassium chloride powder, lauryl alcohol sulfuric acid Ester sodium, dolphin phosphorus, dichloroethylether, anisole, dioxane, anhydrous hydrazine, dibenzoyl peroxide, dichlorosilyl salicylamide, aminopropyltriethoxysilane, t-butanol, Corn peptides. The preparation method of the invention has the advantages of simple preparation method, the prepared product has the superior ability of repairing the soil and has good insecticidal performance, providing the nutrient elements for the agroforestry crops, and the survival rate of the cultivated agriculture and forestry crops has been greatly improved Use effect.

An ecological agro - forestry soil bactericidal repair agent

Technical field

The present invention relates to an ecological agriculture and forestry soil bactericidal repair treatment agent, which belongs to the field of soil repair technology.

Background technique

Soil remediation refers to the use of physical, chemical and biological methods to transfer, absorb, degrade and convert contaminants in the soil, reduce its concentration to an acceptable level, or convert toxic and harmful contaminants into harmless substances. Fundamentally, the technical principles of contaminated soil remediation may include: (1) changing the presence of pollutants in the soil or combining with the soil to reduce their mobility and bioavailability in the environment; 2) reduce the concentration of harmful substances in the soil.

The contents of the invention

It is an object of the present invention to provide an ecological agroforestry soil fungicide repairing agent in order to better realize the use function of the ecological agroforestry soil repairing agent, so that the product has the superior ability of repairing the soil and has better insecticidal performance, The supply of nutrients needed for agriculture and forestry crops, the cultivation of agricultural and forestry crop survival rate increased significantly.

In order to achieve the above object, the technical solution of the present invention is as follows.

An ecological agriculture and forestry soil bactericidal repair treatment agent is composed of the following components: 16 to 20 parts of boron mud, 14 to 18 portions of potassium humic acid, 14 to 18 portions of potassium polyaspartate, 20 to 16 portions of brown sugar 14 to 18 parts of carotenoids, 14 to 18 portions of spartina alternata, 12 to 16 portions of peanut shells, 14 to 18 portions of flower tree powder, 14 to 18 portions of powder of powdery mildew, 12 to 16 portions of ethyl allacin, 12 to 16 parts of natural brassinolide, 12 to 16 portions of potassium fulvic acid, 14 to 18 portions of clove oil, 12 to 16 portions of pepper oil, 10 to 14 portions of tung oil, 14 to 18 parts of nano-zinc oxide, 12 to 16 parts of ammonium phosphate, 10 to 14 portions of honey, 12 to 16 portions of potassium chloride powder, 4 to 8 portions of sodium lauryl sulfate sulfate, 4 to 8 portions of dolian phosphate, 4 to 8 portions of dichloroethyl ether, 4 to 8 parts of methyl ether, 4 to 8 parts of ethephon, 4 to 8 parts of anhydrous hydrazine, 4 to 8 parts of dibenzoyl peroxide, 4 to 8 parts of dichloroethenylsalicylamide, 4 to 8 parts of ethoxysilane, 4 to 8 parts of t-butanol and 4 to 8 portions of corn peptides.

Further, the above-mentioned ecological agricultural and forestry soil bactericidal repair treatment agent is composed of the following mass fraction: 16 parts of boron mud, 14 parts of potassium humate, 14 parts of potassium polyaspartate, 12 parts of brown sugar, 14 parts of carotene 14 parts of *Spartina alterniflora*, 12 peanut shells, 14 portions of flower tree powder, 14 portions of yellow powdery mildew powder, 12 parts of ethyl allacin,

12 parts of natural brassinolide, 12 parts of potassium fulvic acid, 14 parts, 12 parts of pepper oil, 10 parts of tung oil, 14 parts of nano-zinc oxide, 12 parts of ammonium tripolyphosphate, 10 parts of honey, 12 parts of potassium chloride powder, 4 parts of sodium lauryl sulfate sulfate, 4 parts of dichloroethyl ether, 4 parts of anisole, 4 parts of dexamethasone, 4 parts of anhydrous hydrazine, 4 parts of dibenzoyl peroxide, 4 parts of dichloroethenylsalicylamide, 4 parts of aminopropyltriethoxy 4 parts of silane, 4 parts of t-butanol and 4 parts of corn peptides.

Further, the above-mentioned ecological agricultural and forestry soil bactericidal repair treatment agent is composed of 18 parts of boron mud, 16 parts of potassium humate, 16 parts of potassium polyaspartate, 14 parts of brown sugar, 16 parts of carotene 16 parts of *Spartina alterniflora*, 14 of peanut shells, 16 portions of flower tree powder, 16 portions of yellow powdery mildew powder, 14 parts of ethyl allicin, 14 parts of natural brassinolide, 14 parts of potassium fulvic acid, 16 parts, 14 parts of pepper oil, 16 parts of tung oil, 16 parts of nano-zinc oxide, 14 parts of ammonium tripolyphosphate, 12 parts of honey, 14 parts of potassium chloride powder, 6 parts of sodium lauryl sulfate, 6 parts of dichloroether, 6 parts of anisole, 6 parts of dexamethasone, 6 parts of anhydrous hydrazine, 6 parts of dibenzoyl peroxide, 6 parts of dichloroethenylsalicylamide, 5 parts of aminopropyltriethoxy 6 parts of silane, 6 parts of t-butanol and 6 parts of corn peptides.

Further, the above-mentioned ecological agroforestry soil fungicide repair treatment agent is composed of 20 parts of boron mud, 18 parts of potassium humate, 18 parts of potassium polyaspartate, 16 parts of brown sugar, 18 parts of carotene 18 parts of *Spartina alternifolia*, 16 of peanut shells, 18 portions of flower tree powder, 18 portions of yellow powdery mildew powder, 16 parts of ethyl allicin, 16 parts of natural brassinolide, 16 parts of potassium fulvic acid, 18 parts, 16 pieces of pepper oil, 14 parts of tung oil, 18 parts of nano-zinc oxide, 16 parts of ammonium tripolyphosphate, 14 parts of honey, 16 parts of potassium chloride powder, 8 parts of sodium lauryl sulfate sulfate, 8 parts of dichloroethyl ether, 8 parts of anisole, 8 parts of dioxane, 8 parts of anhydrous hydrazine, 8 parts of dibenzoyl peroxide, 8 parts of dichloroethenylsalicylamide, 8 parts of aminopropyltriethoxy 8 parts of silane, 8 parts of t-butanol and 8 parts of zeolite.

Further, the preparation method of the above-mentioned ecological agriculture and forestry soil bactericidal repair treatment agent is as follows:

(1)

The mass fraction of boron mud, potassium humate, polyaspartate potassium, brown sugar, carotene, *spartina alterniflora*, peanut shell, flower tree powder, yellow powder powder, ethyl allicin, natural brassica Lactone, potassium citrate powder, sodium laurate oil, tung oil, nano-zinc oxide, ammonium tripolyphosphate, honey, potassium chloride powder, sodium lauryl sulfate sodium sulfate, ultrasonic high-speed dispersion, ultrasonic

frequency of 20 ~ 40KHz, the dispersion speed is about 5000 ~ 5400r / min, the dispersion time is 30 ~ 60min;

(2)

The ultrasonic wave frequency is 20 ~ 35KHz, the dispersing speed is about 4800 ~ 5200r / min, and the dispersion time is: the temperature of the ultrasonic wave is 20 ~ 35KHz, the dispersing speed is about 4800 ~ 5200r / min, the dispersion time is 30 ~ 50min;

(3)

Adding the above-mentioned mass fraction of dibenzoyl peroxide, dichloroethenylsalicylamide, aminopropyltriethoxysilane, t-butanol, corn peptides, ultrasonic high-speed dispersion, ultrasonic frequency of 20 ~ 30KHz, Speed 4600 ~ 4800r / min or so, the dispersion time of 20 ~ 40min; mixed even after the preparation of the goods.

The beneficial effect of the invention is that the ecological agroforestry soil fungicide repairing agent of the invention comprises the following components: boron mud, potassium humate, potassium polyaspartate, brown sugar, carotene, spartan grass, peanut Shell, flower tree powder, yellow powder powder, ethyl allicin, natural brassinolide, potassium fulvate, clove oil, pepper oil, tung oil, nano zinc oxide, ammonium tripolyphosphate, honey, potassium chloride Powder, sodium lauryl sulfate, dolphin, dichloroethylether, anisole, dioxane, anhydrous hydrazine, dibenzoyl peroxide, dichloroethenylsalicylamide, aminopropyltriethoxy Silane, t-butanol, corn peptides. The preparation method of the invention has the advantages of simple preparation method, the prepared product has the superior ability of repairing the soil and has good insecticidal performance, providing the nutrient elements for the agroforestry crops, and the survival rate of the cultivated agriculture and forestry crops has been greatly improved Use effect.

detailed description

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS Hereinafter, specific embodiments of the present invention will be described with reference to the accompanying drawings in order to better understand the present invention.

Example 1

The ecological agroforestry soil fungicide repair treatment agent in this example was composed of 16 parts of boron mud, 14 parts of potassium humate, 14 parts of potassium polyaspartate, 12 parts of brown sugar, 12 parts of carotene 14 14 parts of *Spartina alterniflora*, 12 of peanut shells, 14 portions of flower tree powder, 14 portions of powdery chrysanthemum powder, 12 parts of ethyl allicin, 12 parts of natural brassinolide, 12 parts of potassium fulvic acid, 14 parts of pepper oil, 10 parts of tung oil, 14 parts of nano-zinc oxide, 12 parts of ammonium tripolyphosphate, 10 parts of honey, 12 parts of potassium chloride powder, 4 parts of sodium lauryl sulfate sulfate, 4 parts of dichloroethyl ether, 4 parts of anisole, 4 parts of dexamethasone, 4 parts of anhydrous hydrazine, 4 parts of dibenzoyl peroxide, 4 parts of dichloroethenylsalicylamide, 4 parts of oxysilane, 4 parts of t-butanol and 4 parts of corn peptides.

The preparation method of the above-mentioned ecological agriculture and forestry soil bactericidal repair agent is as follows:

(1)

The mass fraction of boron mud, potassium humate, polyaspartate potassium, brown sugar, carotene, *spartina alterniflora*, peanut shell, flower tree powder, yellow powder powder, ethyl allicin, natural brassica Lactone, potassium citrate powder, sodium laurate oil, tung oil, tung oil, nano zinc oxide, ammonium tripolyphosphate, honey, potassium chloride powder, sodium lauryl sulfate sodium sulfate, ultrasonic high-speed dispersion, ultrasonic frequency of 20kHz , The dispersion speed of about 5400r / min, the dispersion time of 60min;

(2)

The ultrasonic wave frequency is 20kHz, the dispersion speed is about 5200r / min, the dispersion time is 50min, and the disperse speed is about 50min.

(3)

Adding the above-mentioned mass fraction of dibenzoyl peroxide, dichloroethenylsalicylamide, aminopropyltriethoxysilane, t-butanol, corn peptides, ultrasonic high-speed dispersion, ultrasonic frequency 20 kHz, dispersion speed 4800r / Min or so, the dispersion time of 40min; mixed even after the preparation of the goods.

Example 2

The ecological agroforestry soil fungicide repair treatment agent in the present example was composed of 18 parts of boron mud, 16 parts of potassium humate, 16 parts of polyaspartan, 14 parts of brown sugar, 14 parts of carotene 16 16 parts of *Spartina alterniflora*, 14 of peanut shells, 16 portions of flower tree powder, 16 portions of yellow powdery mildew powder, 14 parts of ethyl allacin, 14 parts of natural brassinolide, 14 parts of potassium fulvate, 16 parts of pepper oil, 12 parts of tung oil, 16 parts of nano-zinc oxide, 14 parts of ammonium tripolyphosphate, 12 parts of honey, 14 parts of potassium chloride powder, 6 parts of sodium lauryl sulfate sulfate, 6 parts of dichloroether, 6 parts of anisole, 6 parts of manson, 6 parts of anhydrous hydrazine, 6 parts of dibenzoyl peroxide, 6 parts of dichloroethenylsalicylamide, 6 parts of aminopropyl 6 parts of oxysilane, 6 parts of t-butanol and 6 parts of corn peptides.

The preparation method of the above-mentioned ecological agriculture and forestry soil bactericidal repair agent is as follows:

(1)

The mass fraction of boron mud, potassium humate, polyaspartate potassium, brown sugar, carotene, *spartina alterniflora*, peanut shell, flower tree powder, yellow powder powder, ethyl allacin, natural brassica Lactone, potassium citrate powder, sodium laurate oil, tung oil, tung oil, nano zinc oxide, ammonium tripolyphosphate, honey, potassium chloride powder, sodium lauryl sulfate sodium sulfate, ultrasonic high-speed dispersion, ultrasonic frequency of 30kHz , The dispersion speed is about 5200r / min, the dispersion time is 45min;

(2)

The ultrasonic wave frequency is 27kHz, the dispersion speed is about 5000r / min, and the dispersion time is 40min. The dispersion frequency is about 50min, and the dispersion time is 40min.

(3)

The ultrasonic wave was dispersed at a high speed of 25 kHz, and the dispersion speed was 4700 r, and the mass

fraction of the dibenzoyl peroxide, dichloroethenylsalicylamide, aminopropyltriethoxysilane, t-butanol, / Min or so, the dispersion time of 30min; mixed even after the preparation of the goods.

Example 3

The ecological agroforestry soil fungicide repair treatment agent in this example was composed of 20 parts of boron mud, 18 parts of potassium humate, 18 parts of potassium polyaspartate, 16 parts of brown sugar, 16 parts of carotene 18 18 parts of *Spartina alterniflora*, 16 of peanut shells, 18 portions of flower tree powder, 18 portions of powdery chrysanthemum powder, 16 parts of ethyl allicin, 16 parts of natural brassinolide, 16 parts of potassium fulvic acid, 18 parts of pepper oil, 14 parts of tung oil, 18 parts of nano zinc oxide, 16 parts of ammonium tripolyphosphate, 14 parts of honey, 16 parts of potassium chloride powder, 8 parts of sodium lauryl sulfate sulfate, 8 parts of dichloroethyl ether, 8 parts of anisole, 8 parts of dioxane, 8 parts of anhydrous hydrazine, 8 parts of dibenzoyl peroxide, 8 parts of dichloroethenylsalicylamide, 8 parts of oxysilane, 8 parts of t-butanol and 8 parts of corn peptides.

The preparation method of the above-mentioned ecological agriculture and forestry soil bactericidal repair agent is as follows:

(1)

The mass fraction of boron mud, potassium humate, polyaspartate potassium, brown sugar, carotene, *spartina alterniflora*, peanut shell, flower tree powder, yellow powder powder, ethyl allicin, natural brassica Lactone, potassium citrate powder, sodium laurate oil, tung oil, tung oil, nano zinc oxide, ammonium tripolyphosphate, honey, potassium chloride powder, sodium lauryl sulfate sodium sulfate, ultrasonic high-speed dispersion, ultrasonic frequency of 40kHz , The dispersion speed of 5000r / min, the dispersion time of 30min;

(2)

The ultrasonic wave frequency was 35 kHz, the dispersion speed was 4800 r / min, and the dispersion time was 30 min. The ultrasonic wave frequency was 35 kHz, the dispersion speed was 4800 r / min, and the dispersion time was 30 min.

(3)

Adding the above-mentioned mass fraction of dibenzoyl peroxide, dichloroethenylsalicylamide, aminopropyltriethoxysilane, t-butanol, corn peptides, ultrasonic high-speed dispersion, ultrasonic frequency of 30 kHz, dispersion speed of 4600r / Min or so, the dispersion time of 20min; mixed even after the preparation of the goods.

The performance of the products in Example 1, Example 2 and Example 3 and a commercially available product was measured. The measured data is shown in Table 1.

Table 1 Performance test results

[Image]

It can be seen that the products of the invention have good insecticidal performance, supply nutrient elements for agroforestry crops, and the survival rate of agricultural and forestry crops is greatly improved.

The foregoing is a preferred embodiment of the present invention and it should be noted that it will be apparent to those skilled in the art that certain modifications and modifications may be made without departing from the principles of the invention, Is within the scope of the present invention.