CLAIMS

1. A formulation suitable for spraying comprising an oil phase comprising at least one active ingredient and a stabiliser, wherein the stabiliser comprises at least one epoxidised vegetable oil, and optionally at least one emulsifier and/or a vapour retardant additive.

2. The formulation according to claim 1, further comprising an aqueous phase comprising at least one dispersing agent.

3. The formulation according to claim 2, further comprising at least one selected from the group consisting of antifoam agents and thickening agents.

4. The formulation according to any one of the preceding claims, wherein the at least one epoxidised vegetable oil is derived from at least one vegetable oil selected from the group consisting of soybean oil, Jatropha oil, lindseed oil, neem oil, palm oil, coconut oil, cottonseed oil, peanut oil, olive oil, rapeseed oil, safflower oil, sesame oil, sunflower oil, almond oil, beechnut oil, cashew oil, hazelnut oil, macadamia oil, mongongo oil, pecan oil, pine nut oil, pistachio oil, and walnut oil.

5. The formulation according to any one of the preceding claims, wherein the stabiliser is epoxidised soybean oil.

6. The formulation according to any one of the preceding claims, wherein the active ingredient is at least one selected from the group consisting of an insecticide, herbicide, fungicide, acaricide, insect repellent, deodoriser and drug.

7. The formulation according to any one of the preceding claims, wherein the active ingredient comprises at least one pyrethroid compound.

8. The formulation according to claim 7, wherein the pyrethroid compound is selected from the group consisting of allethrin, phthalthrin, prallethrin, furamethrin, empenthrin, phenothrin, permethrin, cyphenothrin, cypermethrin, decamethrin, tralomethrin, deltamethrin, bifenthrin, cyfluthrin, etofenprox, transfluthrin, cycloprothrin, acrinathrin, fenvalerate, esfenvalerate, flucythrinate, tefluthrin, esbiothrin, fenpropathrin, tetramethrin, fluvalinate, cyhalothrin, resmethrin,

meperfluthrin, teflumethrin, dimefluthrin, Pyrethrin I, Pyrethrin II, Cinerin I, Cinerin II, jasmolin I, jasmolin II and metofluthrin.

9. The formulation according to any one of the preceding claims, wherein the at least one active ingredient comprises cyphenothrin and/or metofluthrin and optionally piperonyl butoxide.

10. A spray container comprising the formulation according to any one of the preceding claims.

11. A method of preparing a formulation suitable for spraying, comprising preparing an oil phase comprising at least one active ingredient and a stabiliser, wherein the stabiliser comprises at least one epoxidised vegetable oil, and optionally at least one emulsifier and/or a vapour retardant additive.

12. The method according to claim 11, further comprising adding an aqueous phase comprising at least one dispersing agent and optionally at least one antifoam agent and/or thickening agent.

13. The method according to any one claims 11 to 12, wherein the at least one epoxidised vegetable oil is derived from at least one vegetable oil selected from the group consisting of soybean oil, Jatropha oil, lindseed oil, neem oil, palm oil, coconut oil, cottonseed oil, peanut oil, olive oil, rapeseed oil, safflower oil, sesame oil, sunflower oil, almond oil, beechnut oil, cashew oil, hazelnut oil, macadamia oil, mongongo oil, pecan oil, pine nut oil, pistachio oil, and walnut oil.

14. The method according to any one of claims 11 to 13, wherein the stabiliser is epoxidised soybean oil.

15. The method according to any one of claims 11 to 14, wherein the active ingredient is at least one selected from the group consisting of an insecticide, herbicide, fungicide, acaricide, insect repellent, deodoriser and drug.

16. The method according to any one of claims 11 to 15, wherein the active ingredient comprises at least one pyrethroid.

17. The method according to claim 16, wherein the pyrethroid compound is selected from the group consisting of allethrin, phtalthrin, prallethrin, furamethrin, empenthrin, phenothrin, permethrin, cyphenothrin, cypermethrin, decamethrin, tralomethrin, deltamethrin, bifenthrin, cyfluthrin, etofenprox, transfluthrin, cycloprothrin, acrinathrin, fenvalerate, esfenvalerate, flucythrinate, tefluthrin, esbiothrin, fenpropathrin, tetramethrin, fluvalinate, cyhalothrin, resmethrin, meperfluthrin, teflumethrin, dimefluthrin, Pyrethrin I, Pyrethrin II, Cinerin I, Cinerin II, jasmolin I, jasmolin II and metofluthrin.

18. The method according to any one of claims 11 to 17, wherein the formulation comprises cyphenothrin and/or metofluthrin and optionally piperonyl butoxide.

19. Use of the formulation according to any one of claims 1 to 9, optionally diluted with water, or the spray container according to claim 10, to control insects, acarine pests or unwanted plants.

CLAIMS

1. A formulation suitable for spraying comprising an oil phase comprising at least one active ingredient, a stabiliser, a vapour retardant additive, and optionally at least one emulsifier, wherein:

   the stabiliser comprises at least one epoxidised vegetable oil; and

   the vapour retardant additive is selected from the group consisting of one or more of cetyl alcohol, stearic acid and palmitic acid.

2. The formulation according to claim 1, further comprising an aqueous phase comprising at least one dispersing agent.

3. The formulation according to claim 2, further comprising at least one selected from the group consisting of antifoam agents and thickening agents.

4. The formulation according to any one of the preceding claims, wherein the at least one epoxidised vegetable oil is derived from at least one vegetable oil selected from the group consisting of soybean oil, Jatropha oil, lindseed oil, neem oil, palm oil, coconut oil, cottonseed oil, peanut oil, olive oil, rapeseed oil, safflower oil, sesame oil, sunflower oil, almond oil, beechnut oil, cashew oil, hazelnut oil, macadamia oil, mongongo oil, pecan oil, pine nut oil, pistachio oil, and walnut oil.

5. The formulation according to any one of the preceding claims, wherein the stabiliser is epoxidised soybean oil.

6. The formulation according to any one of the preceding claims, wherein the active ingredient is at least one selected from the group consisting of an insecticide, herbicide, fungicide, acaricide, insect repellent, deodoriser and drug.

7. The formulation according to any one of the preceding claims, wherein the active ingredient comprises at least one pyrethroid compound.

8. The formulation according to claim 7, wherein the pyrethroid compound is selected from the group consisting of allethrin, phthalthrin, prallethrin, furamethrin, empenthrin, phenothrin, permethrin, cyphenothrin, cypermethrin, decamethrin, tralomethrin, deltamethrin, bifenthrin, cyfluthrin, etofenprox, transfluthrin, cycloprothrin, acrinathrin, fenvalerate, esfenvalerate, flucythrinate, tefluthrin,

esbiothrin, fenpropathrin, tetramethrin, fluvalinate, cyhalothrin, resmethrin, meperfluthrin, teflumethrin, dimefluthrin, Pyrethrin I, Pyrethrin II, Cinerin I, Cinerin II, jasmolin I, jasmolin II and metofluthrin.

9. The formulation according to any one of the preceding claims, wherein the at least one active ingredient comprises cyphenothrin and/or metofluthrin and optionally piperonyl butoxide.

10. A spray container comprising the formulation according to any one of the preceding claims.

11. A method of preparing a formulation suitable for spraying, comprising preparing an oil phase comprising at least one active ingredient, a stabiliser, a vapour retardant additive, and optionally at least one emulsifier, wherein:

    the stabiliser comprises at least one epoxidised vegetable oil; and

    the vapour retardant additive is selected from the group consisting of one or more of cetyl alcohol, stearic acid and palmitic acid.

12. The method according to claim 11, further comprising adding an aqueous phase comprising at least one dispersing agent and optionally at least one antifoam agent and/or thickening agent.

13. The method according to any one claims 11 to 12, wherein the at least one epoxidised vegetable oil is derived from at least one vegetable oil selected from the group consisting of soybean oil, Jatropha oil, lindseed oil, neem oil, palm oil, coconut oil, cottonseed oil, peanut oil, olive oil, rapeseed oil, safflower oil, sesame oil, sunflower oil, almond oil, beechnut oil, cashew oil, hazelnut oil, macadamia oil, mongongo oil, pecan oil, pine nut oil, pistachio oil, and walnut oil.

14. The method according to any one of claims 11 to 13, wherein the stabiliser is epoxidised soybean oil.

15. The method according to any one of claims 11 to 14, wherein the active ingredient is at least one selected from the group consisting of an insecticide, herbicide, fungicide, acaricide, insect repellent, deodoriser and drug.

16. The method according to any one of claims 11 to 15, wherein the active ingredient comprises at least one pyrethroid.

17. The method according to claim 16, wherein the pyrethroid compound is selected from the group consisting of allethrin, phtalthrin, prallethrin, furamethrin, empenthrin, phenothrin, permethrin, cyphenothrin, cypermethrin, decamethrin, tralomethrin, deltamethrin, bifenthrin, cyfluthrin, etofenprox, transfluthrin, cycloprothrin, acrinathrin, fenvalerate, esfenvalerate, flucythrinate, tefluthrin, esbiothrin, fenpropathrin, tetramethrin, fluvalinate, cyhalothrin, resmethrin, meperfluthrin, teflumethrin, dimefluthrin, Pyrethrin I, Pyrethrin II, Cinerin I, Cinerin II, jasmolin I, jasmolin II and metofluthrin.

18. The method according to any one of claims 11 to 17, wherein the formulation comprises cyphenothrin and/or metofluthrin and optionally piperonyl butoxide.

19. Use of the formulation according to any one of claims 1 to 9, optionally diluted with water, or the spray container according to claim 10, to control insects, acarine pests or unwanted plants.