Claims

1. An insecticidal composition comprising:

at least one emulsifier; and

at least one salt of fatty acid,

wherein the mass proportion of the at least one emulsifier to the at least one salt of fatty acid is 3:4 to 2:5, and

wherein the emulsifier being between 20-30% of the insecticidal composition by weight and the at least one salt of fatty acid being between 40%-50% of the insecticidal composition by weight, with 18%-25% of the composition being moisture.

2. The insecticidal composition as in claim 1, the emulsifier comprising at least one of monoglyceride and diglyceride.

3. The insecticidal composition as in claim 1, the at least one salt of fatty acid being at least one of oleic acid and linoleic acid.

4. The insecticidal composition as in claim 4, the mass proportion of linoleic acid to oleic acid is 3:5 to 3:25.

5. A method for application of an insecticidal mixture, the method comprising:

atomizing an insecticidal mixture for discharge to a space, the insecticidal mixture comprising an insecticidal composition comprising:

at least one emulsifier; and

at least one salt of fatty acid, wherein the mass proportion of the at least one emulsifier to the at least one salt of fatty acid is 3:4 to 2:5.

6. The method as in claim 5, further comprising:

mixing the insecticidal composition with water for forming the insecticidal mixture, the volume proportion of insecticidal composition to water is 2:1 to 1:10.

7. The method as in claim 5, the emulsifier comprising at least one of monoglyceride and diglyceride.

8. The method as in claim 5, the at least one salt of fatty acid being at least one of oleic acid and linoleic acid.

9. The method as in claim 8, the mass proportion of linoleic acid to oleic acid is 3:5 to 3:25.

10. The method as in claim 5, wherein the emulsifier being between 20-30% of the insecticidal composition by weight and the at least one salt of fatty acid being between 40%-50% of the insecticidal composition by weight, with 18%-25% of the composition being moisture.

11. A process for the control of cockroaches in structures comprising:

mixing the insecticidal composition with water for forming an insecticidal mixture, the volume proportion of insecticidal composition to water is 2:1 to 1:10; and

atomizing the insecticidal mixture for discharge to a space,

wherein the insecticidal mixture comprising an insecticidal composition comprising:

at least one emulsifier; and

at least one salt of fatty acid, wherein the mass proportion of the at least one emulsifier to the at least one salt of fatty acid is 3:4 to 2:5.

12. The process as in claim 11, atomizing the insecticidal mixture for discharge to a space comprising atomizing the insecticidal mixture using a cold fogger.

13. The process as in claim 11, the emulsifier comprising at least one of monoglyceride and diglyceride, and the at least one salt of fatty acid being at least one of oleic acid, and linoleic acid,

wherein the emulsifier being between 20-30% of the insecticidal composition by weight and the at least one salt of fatty acid being between 40%-50% of the insecticidal composition by weight, with 18%-25% of the composition being moisture.

14. The process as in claim 13, the mass proportion of linoleic acid to oleic acid is 3:5 to 3:25.

15. A sprinkler system comprising:

a container for containing an insecticidal mixture, the insecticidal mixture comprising an insecticidal composition comprising:

at least one emulsifier; and

at least one salt of fatty acid, wherein the mass proportion of the at least one emulsifier to the at least one salt of fatty acid is 3:4 to 2:5,

at least one nozzle; and

a control module intercoupling the container and the at least one nozzle, the control module being operable for at least one of enabling and impeding flow of the insecticidal mixture from the container to the at least one nozzle for discharge therefrom, the at least one nozzle being adapted and positioned adjacent a chute for directing the insecticidal mixture discharged therefrom into the chute,

wherein the emulsifier being between 20-30% of the insecticidal composition by weight and the at least one salt of fatty acid being between 40%-50% of the insecticidal composition by weight, with 18%-25% of the composition being moisture.

16. The sprinkler system as in claim 15, the control module being at least one of a valve and a pump.