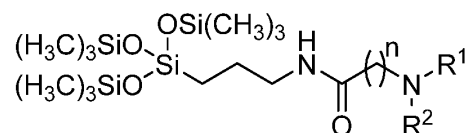


CLAIMS

1. A formulation for a pesticide, comprising:
at least one surfactant of Formula I,



Formula I

wherein R¹ and R² may be the same or different, and comprise at least one group selected from the group consisting of C₁-C₆ alkyl, optionally the C₁-C₆ alkyl may include one or more of oxygen, nitrogen, or sulfur atoms or groups that include at least one of these atoms, and the alkyl chain may be optionally substituted with one or more substituents selected from the group consisting of hydroxyl, amino, amido, sulfonyl, sulfonate, carbonyl, carboxyl, and carboxylate;

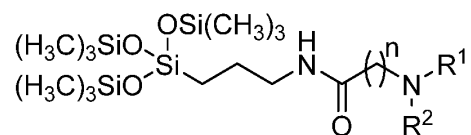
n is an integer from 1 to 12;

the terminal nitrogen is optionally further substituted with R³, wherein R³ is selected from the group consisting of hydrogen, oxygen, hydroxyl, and C₁-C₆ alkyl;

an optional counterion associated with the compound which, if present, is selected from the group consisting of chloride, bromide, and iodide; and
a pesticide.

2. The formulation of Claim 1, further comprising a water-insoluble solvent.
3. The formulation of Claim 1, wherein the pesticide is an insecticide.
4. The formulation of Claim 3, further comprising an antifoaming agent.
5. The formulation of Claim 3, further comprising an antifreezing agent.
6. The formulation of Claim 3, further comprising water.

7. A formulation for a fungicide, comprising:
at least one surfactant of Formula I,



Formula I

wherein R¹ and R² may be the same or different, and comprise at least one group selected from the group consisting of C₁-C₆ alkyl, optionally the C₁-C₆ alkyl may include one or more of oxygen, nitrogen, or sulfur atoms or groups that include at least one of these atoms, and the alkyl chain may be optionally substituted with one or more substituents selected from the group consisting of hydroxyl, amino, amido, sulfonyl, sulfonate, carbonyl, carboxyl, and carboxylate;

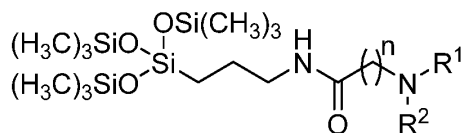
n is an integer from 1 to 12;

the terminal nitrogen is optionally further substituted with R³, wherein R³ is selected from the group consisting of hydrogen, oxygen, hydroxyl, and C₁-C₆ alkyl;

an optional counterion associated with the compound which, if present, is selected from the group consisting of chloride, bromide, and iodide; and

a fungicide.

8. The formulation of Claim 7, further comprising a co-surfactant.
9. The formulation of Claim 7, further comprising a carrier agent.
10. A formulation for an herbicide, comprising:
at least one surfactant of Formula I,



Formula I

wherein R¹ and R² may be the same or different, and comprise at least one group selected from the group consisting of C₁-C₆ alkyl, optionally the C₁-C₆ alkyl may include one or more of oxygen, nitrogen, or sulfur atoms or groups that include at

least one of these atoms, and the alkyl chain may be optionally substituted with one or more substituents selected from the group consisting of hydroxyl, amino, amido, sulfonyl, sulfonate, carbonyl, carboxyl, and carboxylate;

n is an integer from 1 to 12;

the terminal nitrogen is optionally further substituted with R³, wherein R³ is selected from the group consisting of hydrogen, oxygen, hydroxyl, and C₁-C₆ alkyl;

an optional counterion associated with the compound which, if present, is selected from the group consisting of chloride, bromide, and iodide; and
an herbicide.

11. The formulation of Claim 10, further comprising a second herbicide.
12. The formulation of Claim 10, further comprising a water-insoluble solvent.
13. The formulation of Claim 10, further comprising water.