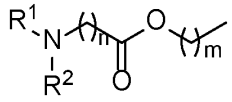
CLAIMS

1. A solid healthcare formulation, comprising:

at least one surfactant of Formula I,



Formula I

wherein R^1 and R^2 may be the same or different, and may be selected from the group consisting of hydrogen and C_1-C_6 alkyl, wherein the C_1-C_6 alkyl may optionally be 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 2 to 5 (including 2 and 5);

m is an integer from 9 to 20 (including 9 and 20);

the terminal nitrogen is optionally further substituted with R^3, wherein R^3 is selected from the group consisting of hydrogen, oxygen, hydroxyl, and C_1-C_6 alkyl, wherein the C_1-C_6 alkyl may optionally be substituted with one or more substituents selected from the group consisting of hydroxyl, amino, amido, sulfonyl, sulfonate, carbonyl, carboxyl, and carboxylate;

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

at least one Active ingredient.

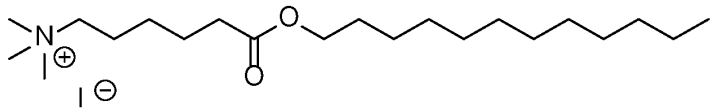
2. The formulation of claim 1, wherein the at least one Active is selected from the group consisting of: a drug, a protein, a cell, a tissue, a vitamin, a supplement, and a mineral.

3. The formulation of claim 1 or claim 2, further comprising at one or more excipients.

4. The formulation according to claim 3, wherein the one or more excipients are selected from the group consisting of: binders, fillers, disintegrents, salts, colorants, sweeteners, and flavorants.

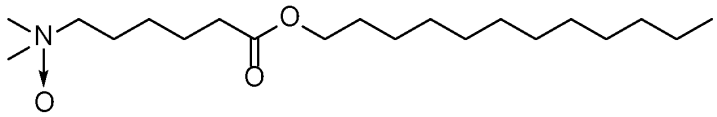
5. The formulation of any of claims 1-4, wherein the formulation is configured as a powder, a tablet, or a capsule.

6. The formulation of any of claims 1-5, wherein the surfactant comprises at least one of 6-(dodecyloxy)-N,N,N-trimethyl-6-oxohexan-1-aminium iodide, having the following formula:



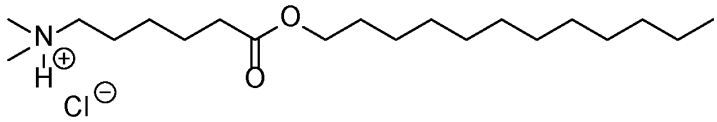
;

dodecyl 6-(dimethylamino)hexanoate *N*-oxide, having the following formula:



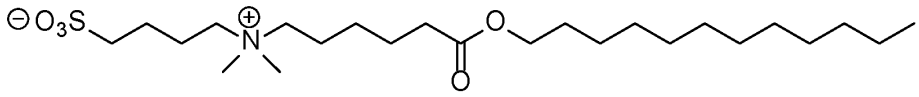
;

6-(dodecyloxy)-N,N-dimethyl-6-oxohexan-1-aminium chloride, having the following formula:



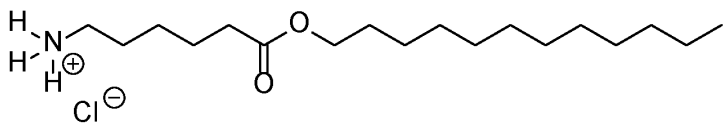
;

4-((6-(dodecyloxy)-6-oxohexyl)dimethylammonio)butane-1-sulfonate, having the following formula:



;

6-(dodecyloxy)-6-oxohexan-1-aminium chloride, having the following formula:

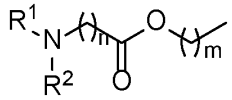


; and

combinations thereof.

7. A liquid formulation for healthcare, comprising:

at least one surfactant of Formula I,



Formula I

wherein R^1 and R^2 may be the same or different, and may be selected from the group consisting of hydrogen and C_1-C_6 alkyl, wherein the C_1-C_6 alkyl may optionally be 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 2 to 5 (including 2 and 5);

m is an integer from 9 to 20 (including 9 and 20);

the terminal nitrogen is optionally further substituted with R^3, wherein R^3 is selected from the group consisting of hydrogen, oxygen, hydroxyl, and C_1-C_6 alkyl, wherein the C_1-C_6 alkyl may optionally be substituted with one or more substituents selected from the group consisting of hydroxyl, amino, amido, sulfonyl, sulfonate, carbonyl, carboxyl, and carboxylate;

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

at least one Active ingredient; and

an aqueous component.

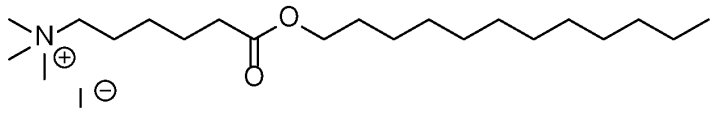
8. The formulation of claim 7, further comprising a buffer.

9. The formulation of claim 7 or claim 8, further comprising one or more of the following: a sweeter, a flavorant, a colorant, and/or a preservative.

10. The formulation of any of claims 7-9, further comprising a thickener.

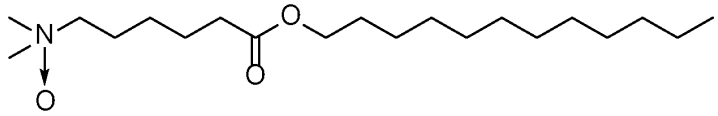
11. The formulation of claim 10, wherein the formulation is one of the following: a drop, a paste, a salve, a lotion, or an ointment.

12. The formulation of any of claims 7-11, wherein the surfactant comprises at least one of 6-(dodecyloxy)-N,N,N-trimethyl-6-oxohexan-1-aminium iodide, having the following formula:



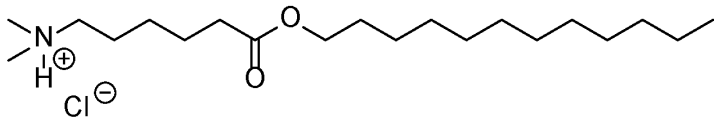
;

dodecyl 6-(dimethylamino)hexanoate *N*-oxide, having the following formula:



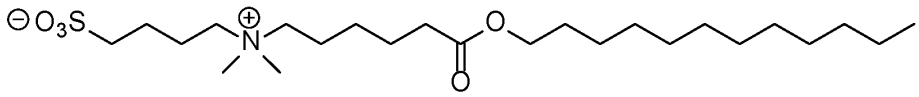
;

6-(dodecyloxy)-N,N-dimethyl-6-oxohexan-1-aminium chloride, having the following formula:



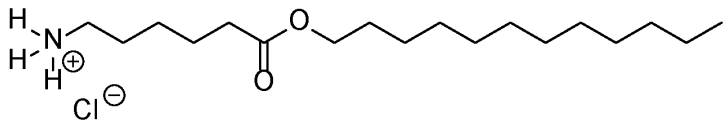
;

4-((6-(dodecyloxy)-6-oxohexyl)dimethylammonio)butane-1-sulfonate, having the following formula:



;

6-(dodecyloxy)-6-oxohexan-1-aminium chloride, having the following formula:

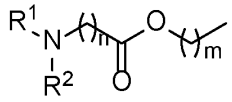


; and

combinations thereof.

13. An emulsion for healthcare, comprising:

at least one surfactant of Formula I,



Formula I

wherein R^1 and R^2 may be the same or different, and may be selected from the group consisting of hydrogen and C_1-C_6 alkyl, wherein the C_1-C_6 alkyl may optionally be 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 2 to 5 (including 2 and 5);

m is an integer from 9 to 20 (including 9 and 20);

the terminal nitrogen is optionally further substituted with R^3, wherein R^3 is selected from the group consisting of hydrogen, oxygen, hydroxyl, and C_1-C_6 alkyl, wherein the C_1-C_6 alkyl may optionally be substituted with one or more substituents selected from the group consisting of hydroxyl, amino, amido, sulfonyl, sulfonate, carbonyl, carboxyl, and carboxylate;

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

at least one Active ingredient;

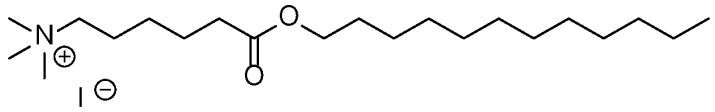
an aqueous phase; and

a non-aqueous phase.

14. The emulsion of claim 13, further comprising a buffer.

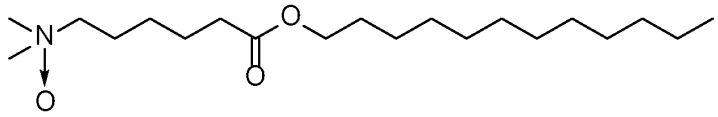
15. The emulsion of either claim 13 or claim 14, further comprising one or more of the following: a sweeter, a flavorant, a colorant, and/or a preservative.

16. The emulsion any of claims 13-15, wherein the surfactant comprises at least one of 6-(dodecyloxy)-N,N,N-trimethyl-6-oxohexan-1-aminium iodide, having the following formula:



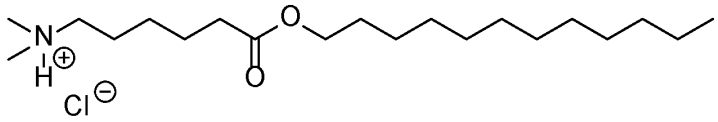
;

dodecyl 6-(dimethylamino)hexanoate *N*-oxide, having the following formula:



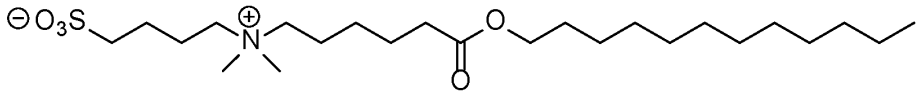
;

6-(dodecyloxy)-N,N-dimethyl-6-oxohexan-1-aminium chloride, having the following formula:



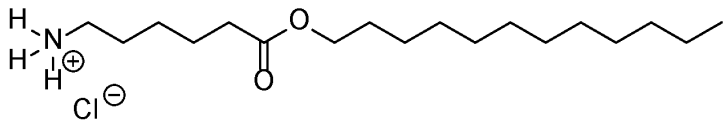
;

4-((6-(dodecyloxy)-6-oxohexyl)dimethylammonio)butane-1-sulfonate, having the following formula:



;

6-(dodecyloxy)-6-oxohexan-1-aminium chloride, having the following formula:



; and

combinations thereof.