CLAIMS

1. A toilet cleaning block comprising perfume, at least one alkylbenzene sulfonate and at least one olefin sulfonate, wherein the block comprises one or more antimicrobial active ingredients and no more than 2.5 wt.% nonionic surfactants and is shaped in a rolling machine or press to form a spherical object.

2. The toilet cleaning block according to claim 1, wherein it comprises 10 to 70 wt.%, preferably 20 to 65 wt.%, particularly preferably 20 to 30 wt.%, alkylbenzene sulfonate.

3. The toilet cleaning block according to one of claims 1 and 2, wherein it comprises 10 to 30 wt.%, preferably 15 to 30 wt.%, particularly preferably 15 to 25 wt.%, olefin sulfonate.

4. The toilet cleaning block according to one of claims 1 to 3, wherein it comprises at least one further anionic surfactant.

5. The toilet cleaning block according to claim 4, wherein the at least one anionic surfactant is preferably a fatty alcohol sulfate and is preferably comprised in quantities of up to 20 wt.%, particularly preferably 4 to 12 wt.%, in particular 7 to 10 wt.%.

6. The toilet cleaning block according to one of the preceding claims, wherein it is free from nonionic surfactants.

7. The toilet cleaning block according to one of the preceding claims, wherein it comprises further surfactants, preferably selected from the group encompassing fatty alcohol ether sulfates, alkane sulfonates and mixtures thereof.

8. The toilet cleaning block according to one of the preceding claims, wherein the antimicrobial active ingredient or ingredients are preferably selected from the group encompassing salicylic acid, quaternary surfactants, in particular benzalkonium chloride, peroxo compounds, in

particular sodium percarbonate or phthalimido-peroxy-hexanoic acid, alkali metal hypochlorite, sodium dichloroisocyanurate and mixtures thereof, sodium dichloroisocyanurate being most particularly preferred.

9. The toilet cleaning block according to one of the preceding claims, wherein it comprises one or more further ingredients conventionally used in toilet cleaning blocks, preferably selected from the group encompassing acids, bases, salts, thickeners, preservatives, complexing agents, dyes, scents, perfume boosters, fillers, builders, bleaching agents, corrosion inhibitors, flush regulators, enzymes, microorganisms, active ingredients for biofilm removal, active ingredients for inhibiting limescale deposits, active ingredients for reducing soil adhesion and mixtures thereof.

10. The toilet cleaning block according to one of the preceding claims, wherein the toilet cleaning block has the shape of a ball with a sphericity Ψ of between 0.8 and 1, particularly preferably between 0.85 and 1, most particularly preferably between 0.9 and 1.

11. A system of at least one toilet cleaning block according to one of the preceding claims and a dispensing device.

12. A method of manufacturing a rotationally symmetrical toilet cleaning block which comprises perfume, alkylbenzene sulfonate and olefin sulfonate and is free from nonionic surfactants, encompassing the steps of:

    a) mixing the ingredients,
    b) extruding the mixture,
    c) cutting the extruded strand into pieces of a defined mass,
    d) shaping into rotationally symmetrical objects.

13. The method according to claim 12, wherein following one of steps b) or c) the extruded strand is provided with a lubricant.

14. The method according to claim 12 or 13, wherein the toilet cleaning block is shaped into a ball with a sphericity Ψ of between 0.8 and 1, particularly preferably between 0.85 and 1, most particularly preferably between 0.9 and 1.

15. The method according to one of claims 12 to 14, wherein the shaping d) takes place in a ball rolling machine or in a press.

16. A method for cleaning and/or perfuming and/or disinfecting flush toilets using a system according to claim 11.

CLAIMS

1. A toilet cleaning block comprising perfume, at least one alkylbenzene sulfonate and at least one olefin sulfonate, wherein the block comprises one or more antimicrobial active ingredients and no more than 2.5 wt.% nonionic surfactants and is shaped in a rolling machine or press to form a spherical object, wherein the antimicrobial active ingredient is a chlorine-containing antimicrobial active ingredient.

2. The toilet cleaning block according to claim 1, wherein it comprises 10 to 70 wt.%, or 20 to 65 wt.%, or 20 to 30 wt.%, alkylbenzene sulfonate.

3. The toilet cleaning block according to one of claims 1 and 2, wherein it comprises 10 to 30 wt.%, or 15 to 30 wt.%, or 15 to 25 wt.%, olefin sulfonate.

4. The toilet cleaning block according to one of claims 1 to 3, wherein it comprises at least one further anionic surfactant.

5. The toilet cleaning block according to claim 4, wherein the at least one anionic surfactant is a fatty alcohol sulfate and is comprised in quantities of up to 20 wt.%, or 4 to 12 wt.%, or 7 to 10 wt.%.

6. The toilet cleaning block according to one of the preceding claims, wherein it is free from nonionic surfactants.

7. The toilet cleaning block according to one of the preceding claims, wherein it comprises further surfactants selected from the group encompassing fatty alcohol ether sulfates, alkane sulfonates and mixtures thereof.

8. The toilet cleaning block according to one of the preceding claims, wherein the antimicrobial active ingredient or ingredients are selected from the group encompassing benzalkonium chloride, alkali metal hypochlorite, sodium dichloroisocyanurate and mixtures thereof.

9. The toilet cleaning block according to one of the preceding claims, wherein it comprises one or more further ingredients conventionally used in toilet cleaning blocks, said further ingredients selected from the group encompassing acids, bases, salts, thickeners, preservatives, complexing agents, dyes, scents, perfume boosters, fillers, builders, bleaching agents, corrosion inhibitors, flush regulators, enzymes, microorganisms, active ingredients for biofilm removal, active ingredients for inhibiting limescale deposits, active ingredients for reducing soil adhesion and mixtures thereof.

10. The toilet cleaning block according to one of the preceding claims, wherein the toilet cleaning block has the shape of a ball with a sphericity Ψ of between 0.8 and 1, or between 0.85 and 1, or between 0.9 and 1.

11. A system of at least one toilet cleaning block according to one of the preceding claims and a dispensing device.

12. A method of manufacturing a rotationally symmetrical toilet cleaning block which comprises perfume, alkylbenzene sulfonate, olefin sulfonate and a chlorine-containing antimicrobial active ingredient, and is free from nonionic surfactants, encompassing the steps of:

a) mixing the ingredients,

b) extruding the mixture,

c) cutting the extruded strand into pieces of a defined mass,

d) shaping into rotationally symmetrical objects.

13. The method according to claim 12, wherein following one of steps b) or c) the extruded strand is provided with a lubricant.

14. The method according to claim 12 or 13, wherein the toilet cleaning block is shaped into a ball with a sphericity Ψ of between 0.8 and 1, or between 0.85 and 1, or preferably between 0.9 and 1.

15. The method according to one of claims 12 to 14, wherein the shaping d) takes place in a ball rolling machine or in a press.

16. A method for cleaning and/or perfuming and/or disinfecting flush toilets using a system according to claim 11.