Patented Feb. 4, 1930 1,745,507

UNITED STATES PATENT OFFICE

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DISINFECTANT AND ANTISEPTIC PRODUCT

No Drawing. Application filed October 11, 1928. Serial No. 311,954.

(GRANTED UNDER THE ACT OF MARCH 3, 1883, AS AMENDED APRIL 30, 1928; 370 O. G. 757)

This application is made under the act approved April 30, 1928, and the invention herein described, may be manufactured and used by or for the Government for governmental purposes without payment to me of any royalty thereon. I hereby dedicate the invention herein described to the free use of the public, to take effect upon the grant of a patent to me.

My invention relates to the employment as disinfectants and antiseptics of acyl resorcinols containing more than one carbon atom in the acyl group.

The invention includes the products referred to above in a pure state as well as in an impure state, and mixtures of two or more of the individual members of the group.

My acyl resorcinols may preferably be prepared by any of the well known methods for making acyl resorcinols. For example, Johnson and Lane in Jour. Amer. Chem. Soc. 43,348–360, 1921, described a method for the manufacture of acyl resorcinols; also applicant and F. W. Tilley, in an article published in the Journal of Bacteriology, Volume XIV, No. 4, October, 1927, described a method for the manufacture of acyl resorcinols.

I found that acyl resorcinols containing more than one carbon atom in the acyl group are useful and efficient disinfectants and antiseptic. The acyl resorcinols, which are disinfectant and antiseptic and which are covered by and included in my invention are those acyl resorcinols that have two or more carbon atoms in the acyl group, namely, actyl resorcinol, and up. Specifically I may mention, in addition to acetyl resorcinol some of those that are included in my invention such as propionyl resorcinol, butyryl resorcinol, amylyl resorcinol, hexylyl resorcinol, heptylyl resorcinol, octylyl resorcinol, etc.

My acyl resorcinols may be emulsified or dissolved in water or other suitable vehicle and then used as disinfectants and antiseptics. They may also be used in a solid form. Some of the uses to which my invention may be put are as follows:

In the destruction of parasites; in the destruction of lower forms of life, for example, as a germicidal agent; as an inhibition to the growth of lower forms of life, for example, as an antiseptic agent. That the substances above mentioned having disinfectant, antiseptic and germicidal properties or values, consequently, possess therapeutic properties or values.

I claim:

1. As a disinfectant and antiseptic, acyl resorcinols containing more than one carbon atom in the acyl group.

2. As a disinfectant and antiseptic, acetyl resorcinol.

3. As a disinfectant and antiseptic, propionyl resorcinol.

4. As a disinfectant and antiseptic, butyryl resorcinol.

5. As a disinfectant and antiseptic, amylyl resorcinol.

6. As a disinfectant and antiseptic, hexylyl resorcinol.

7. As a disinfectant and antiseptic, heptylyl resorcinol.

8. As a disinfectant and antiseptic, octylyl resorcinol.

9. As disinfectants and antiseptics, acyl resorcinols having not less than two nor more than eighteen carbon atoms in the acyl group.

10. As disinfectants and antiseptics, acyl resorcinols having not less than two nor more than sixteen carbon atoms in the acyl group.

11. As disinfectants and antiseptics, acyl resorcinols having not less than two nor more than fourteen carbon atoms in the acyl group.

12. As disinfectants and antiseptics, acyl resorcinols having not less than two nor more than twelve carbon atoms in the acyl group.

13. As disinfectants and antiseptics, acyl

resorcinols having not less than two nor more than ten carbon atoms in the acyl group.

14. As disinfectants and antiseptics, acyl resorcinols having not less than two nor more than eight carbon atoms in the acyl group.

15. As disinfectants and antiseptics, mixtures of acyl resorcinols containing more than one carbon atom in the acyl group.

16. As disinfectants and antiseptics, acyl coconut resorcinols containing more than one carbon atom in the acyl group.

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