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(54) Title: COMPOSITE BIOCIDAL PARTICLES

(57) Abstract

A biocidal composition is disclosed comprising composite particles, each of said composite particles containing a shell and a core, said core comprising a metal or a metal–containing compound wherein the metal is a moiety selected from the group consisting of zinc, copper, bismuth, silver, zirconium, and combinations thereof said shell comprising a pyrithione adduct comprising the reaction product of pyrithione with a portion of said core metal or metal compound. In one aspect, an anti–fouling composition is disclosed comprising (a) an anti–soft–fouling effective amount of copper pyrithione; and (b) an anti–hard–fouling effective amount of a copper–containing salt, or oxide or hydroxide thereof. The present invention also relates to a method of making an antifouling composition comprising particles of copper pyrithione and a copper–containing salt that is effective against hard–fouling and soft–fouling organisms.