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(21) International Application Number: PCT/US96/20340 (22) International Filing Date: 27 December 1996 (27.12.96) (30) Priority Data: 08/580,739 29 December 1995 (29.12.95) US (71) Applicant: BUCKMAN LABORATORIES INTERNATIONAL, INC. [US/US]; 1256 N. McLean Boulevard, Memphis, TN 38108 (US). (72) Inventors: KING, Vanja, M.; 1400 Carr Avenue, Memphis, TN 38104 (US). ZHOU, Xiandong; 4271 Hilldale Avenue, Memphis, TN 38117 (US). (74) Agents: ARMSTRONG, James, E., III et al.; Armstrong, Westerman, Hattori, McLeland & Naughton, Suite 1000, 1725 K Street, Washington, DC 20006 (US).			(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report.

(54) Title: SYNERGISTIC ANTIMICROBIAL COMPOSITIONS CONTAINING 1-HYDROXYMETHYLPYRAZOLE AND A PRESERVATIVE

(57) Abstract

Compositions comprising a compound of formula (I) where R and R' are independently selected from hydrogen and alkyl of 1 to 4 carbon atoms, R" is a moiety selected from the group consisting of (a) hydrogen, (b) a halogen atom selected from the group consisting of F, Cl, Br, and I, and (c) a nitro group, or the hydrochloride salt of said compound; and at least one preservative are disclosed which are synergistically effective compared to the respective components alone in controlling and/or reducing the growth of microorganisms in or on a material or medium. Methods to control and/or reduce the growth of microorganisms and prevent spoilage caused by microorganisms with the use of the compositions of the present invention are also disclosed.



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