

Title (en)

PYRITHIONE BIOCIDES ENHANCED BY ZINC METAL IONS AND ORGANIC AMINES

Title (de)

MIT ZINKMETALLIONEN UND ORGANISCHEN AMINEN VERSTÄRKT PYRITHIONBIOZIDE

Title (fr)

BIOCIDES PYRITHIONE RENFORCES PAR DES IONS METALLIQUES DE ZINC ET PAR DES AMINES ORGANIQUES

Publication

**EP 1583420 A4 20060426 (EN)**

Application

**EP 02808337 A 20021219**

Priority

US 0240983 W 20021219

Abstract (en)

[origin: WO2004057964A1] The present invention is directed to a stable, soluble, antimicrobial composition concentrate comprising pyrithione or a pyrithione complex in an amount of from about 0.5% to about 30 weight percent, a zinc source in an amount of from about 0.1% to about 10%, and an organic amine component in an amount of from about 30% to about 80%, said percents being based upon the total weight of the composition concentrate. The invention is also directed to methods of controlling the growth of free-living microorganisms or biofilms using the antimicrobial composition of the invention, and products made using the antimicrobial composition of the invention.

IPC 8 full level

**A01N 25/34** (2006.01); **A01N 33/08** (2006.01); **A01N 43/40** (2006.01); **A01N 59/16** (2006.01)

CPC (source: EP)

**A01N 59/16** (2013.01)

Citation (search report)

- [DY] WO 0100021 A1 20010104 - ARCH CHEM INC [US]
- [Y] US 3636213 A 19720118 - GERSTEIN TERRY, et al
- See references of WO 2004057964A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

**WO 2004057964 A1 20040715**; AU 2002368500 A1 20040722; BR 0215972 A 20050913; CN 100341409 C 20071010; CN 1713815 A 20051228; EP 1583420 A1 20051012; EP 1583420 A4 20060426; JP 2006510713 A 20060330; JP 5096663 B2 20121212; MX PA05006325 A 20051212

DOCDB simple family (application)

**US 0240983 W 20021219**; AU 2002368500 A 20021219; BR 0215972 A 20021219; CN 02830070 A 20021219; EP 02808337 A 20021219; JP 2004563143 A 20021219; MX PA05006325 A 20021219