

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
23 March 2006 (23.03.2006)

PCT

(10) International Publication Number
WO 2006/032019 A1

(51) International Patent Classification⁷: **A01N 25/28**,
A01P 1/00, 3/00, 9/00, A01N 43/80 // (A01N 43/80,
25:28)

(21) International Application Number:
PCT/US2005/033109

(22) International Filing Date:
14 September 2005 (14.09.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/609,741 14 September 2004 (14.09.2004) US

(71) Applicant (for all designated States except US): **MI-CROTEK LABORATORIES, INC.** [US/US]; 5747
Executive Boulevard, Dayton, OH 45424 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HART, Ronald, Lee**
[US/US]; 1519 Heatherwood Trail, Xenia, OH 45385 (US).
VIRGALLITO, David, Russell [US/US]; 1622 Beaver-
brook Drive, Beavercreek, OH 45432 (US). **WORK, Dale,**
Ellis [US/US]; 115 North Madison Road, London, OH
43140 (US).

(74) Agents: **LEVY, Mark, P.** et al.; Thompson Hine LLP,
2000 Courthouse Plaza NE, 10 West Second Street, Day-
ton, OH 45402-1758 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ,
OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: MICROENCAPSULATION OF BIOCIDES AND ANTIFOULING AGENTS

(57) Abstract: The present invention relates to microencapsulated compositions of isothiazolone derivatives and other water insoluble biocides or antifouling agents. In particular, the present invention relates to microencapsulated 4,5 dichloro 2 n-octyl-3(2H)-isothiazolone(DCOIT), useful in marine antifouling coatings and paints.



WO 2006/032019 A1