

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 May 2004 (13.05.2004)

PCT

(10) International Publication Number
WO 2004/039159 A1

- (51) International Patent Classification⁷: **A01N 59/00**, 25/22, 59/00, 59/02, 25/22
- (21) International Application Number: PCT/US2003/034482
- (22) International Filing Date: 28 October 2003 (28.10.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
10/282,290 28 October 2002 (28.10.2002) US
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- (81) Designated States (*national*): AU, BR, CA, CN, ID, JP, KR, MX, RU, SG, UA, ZA.
- (84) Designated States (*regional*): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).
- 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 "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: ACTIVE BROMINE CONTAINING BIOCIDAL COMPOSITIONS AND THEIR PREPARATION

(57) **Abstract:** Described are highly concentrated liquid biocidal solutions formed in water from (a) specified bromine sources (e.g., BrCl or mixtures of BrCl and Br₂) and (b) alkali metal salt of sulfamic acid and/or sulfamic acid and alkali metal base, wherein the solution contains >160,000 ppm of active bromine. Solutions of this type have been found to have greater stability than a commercially-available solution made from the same components containing 148,600 ppm of active bromine. Also described are new, water-soluble, solid state biocidal products formed by removing the water from solutions made in water from (a) and (b) irrespective of the initial concentration of active bromine. Removal of water can be accomplished by flashing or distillation at reduced pressure or preferably by spray drying. Such solid state products are typically in the form of powders or small particles, but can be compacted into larger forms preferably with the aid of one or more suitable binding agents. a combination of any two or all three of (a), (b), and (c).

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