

Title (en)

PREPARATION OF CONCENTRATED BROMINE SOLUTIONS AND HIGH ACTIVITY BROMINE SOLIDS

Title (de)

VERFAHREN VON KONZENTRIERTEN BROMLÖSUNGEN UND HOCHWIRKSAMEN BROMHALTIGEN FESTSTOFFEN

Title (fr)

PRÉPARATION DE SOLUTIONS DE BROME CONCENTRÉ ET DE SOLIDES DE BROME À FORTE ACTIVITÉ

Publication

**EP 1744631 A1 20070124 (EN)**

Application

**EP 04822042 A 20040510**

Priority

US 2004014778 W 20040510

Abstract (en)

[origin: WO2005112649A1] The invention includes convenient methods of preparing: (1) highly concentrated liquid bromine-containing biocidal solutions, (2) highly concentrated mixed halogen liquid bromine and chlorine-containing biocidal solutions, and (3) high-activity bromine containing biocidal solids, all having excellent physical and chemical stability. One method yields solutions that have concentrations of bromine in excess of 18% as Br<sub>2</sub> (8% as C12) in which the mole ratio of hydroxide ion to hydrogen ion source is at least 1.9: 1. Another method employs elemental bromine in conjunction with a solid organic or inorganic halogenating agent to yield halogen solutions at concentrations greater than 22.9% as Br<sub>2</sub> (10.2% as C12). This method can be performed under conditions that exceed the solubility of the active ingredient such that it crystallizes and is recovered as a hydrated or anhydrous salt in good yield.

IPC 8 full level

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