

Title (en)

METHOD OF DEGRADING TBP USING A PHOTOSYNTHETIC BACTERIAL STRAIN

Title (de)

VERFAHREN ZUM ABBAU VON TBP UNTER VERWENDUNG EINES PHOTOSYNTHESEBAKTERIENSTAMMS

Title (fr)

PROCEDE DE DEGRADATION DU TBP PAR UNE SOUCHE BACTERIENNE PHOTOSYNTHETIQUE.

Publication

EP 1638897 A2 20060329 (FR)

Application

EP 04742718 A 20040513

Priority

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- FR 0305762 A 20030514

Abstract (en)

[origin: FR2854886A1] Method for treating or purifying liquid waste polluted by tributyl phosphate (TBP) by incubation with at least one purple, photosynthetic, non-sulfurous bacterium (A) resistant to TBP. (A) is Rhodopseudomonas palustris; Rhodospirillum rubrum; Rhodobacter capsulatus; or Rhodobacter sphaeroides, optionally modified to over express cytochrome P450, and able to degrade TBP when present at any concentration. Independent claims are also included for: (1) method for monitoring decomposition of TBP in waste by applying the new treatment then measuring residual TBP content in a test sample after at least 15 days; (2) kit for the new process that contains at least one (A); (3) strain of (A) in which the DNA includes at least one copy of a gene for P450; and (4) device for purifying liquid waste polluted by TBP comprising at least one decantation tank for treatment with (A).

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C02F 3/34

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CPC (source: EP US)

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