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(71) Applicant (for all designated States except US): **CIBA SPECIALTY CHEMICALS WATER TREATMENTS LIMITED** [GB/GB]; Cleckheaton Road, Low Moor, Bradford, West Yorkshire BD12 0JZ (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HUGHES, Jonathan** [GB/GB]; 6 Lightridge Road, Fixby, Huddersfield, West Yorkshire HS2 2HE (GB). **ARMITAGE, Yvonne** [GB/GB]; 21 Windmill View, Scholes, Holmfirth, West Yorkshire, HD9 1SA (GB). **KULLAR, Jatinder** [GB/GB]; 62 Whiteways, Off Bolton Lane, Bradford, West Yorkshire, BD2 4BJ (GB). **GREENHALGH, Stuart** [GB/GB]; 78 Riverside Court, Victoria Road, Saltaire, Bradford, West Yorkshire BD18 3LZ (GB).

(74) Common Representative: **CIBA SPECIALTY CHEMICALS WATER TREATMENTS LIMITED**; Patents Department, Cleckheaton Road, Low Moor, Bradford, West Yorkshire BD12 0JZ (GB).

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(54) Title: STRAIN OF RHODOCOCCUS RHODOCHROUS NCIMB 41164 AND ITS USE AS PRODUCER OF NITRILE HYDRATASE

(57) Abstract: A microorganism which is Rhodococcus rhodochrous strain NCIMB 41164 or a mutant thereof. A method of culturing the microorganism in a culture medium comprising urea or urea derivative is claimed. A nitrite hydratase obtainable from the microorganism is claimed. Also claimed is a process of preparing an amide from the corresponding nitrite wherein the nitrite is subjected to a hydration reaction in an aqueous medium in the presence of a biocatalyst selected from the group consisting of a microorganism which is a Rhodococcus rhodochrous strain NUMB 41164, a mutant thereof and a nitrite hydratase obtainable from Rhodococcus rhodochrous strain NCIMB 41164 or a mutant thereof. Also claimed is a method of storing the Rhodococcus rhodochrous NUMB 41164.

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