

(amended)

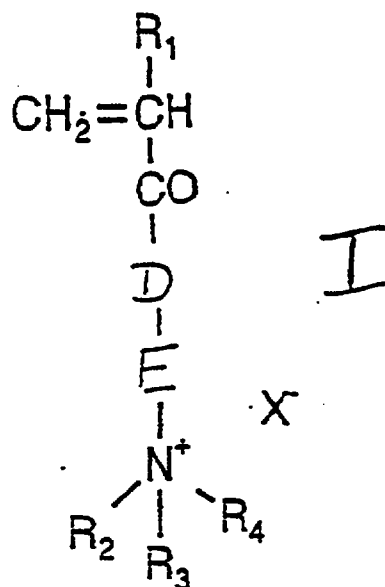
Patent Claims

1. Method of manufacturing dispersions of water-soluble
5 cationic vinyl polymers by radical homopolymerisation of
water-soluble cationic hydrophobically modified vinyl
monomers or by radical copolymerisation of these vinyl
monomers of water-soluble non-ionic, hydrophobically
modified vinyl monomers with water-soluble cationic
10 and/or water-soluble neutral vinyl monomers in aqueous
saline solutions, using a water-soluble initiator and in
the presence of a stabiliser,
characterised in that
a block copolymer from a cationic vinyl monomer and
15 ethylene oxide is used as a stabiliser.

2. Method according to claim 1,
characterised in that the cationic block of the block
copolymer is formed from monomers of the general formula
20 I



* C L M S *



wherein R_1 is hydrogen or a methyl residue, R_2 and R_3 are an alkyl residue with 1 to 6 carbon atoms, R_4 is an alkyl residue with 1 to 6 carbon atoms or a benzyl residue, D is the grouping NH or O , and E is an alkylene residue or hydroxylalkylene residue with 2 to 6 carbon atoms, and X is a halogenide, acetate or methosulphate.

- 10 3. Method according to claim 1,
characterised in that the cationic block of the block
copolymer is formed from the monomers
diallyldimethylammoniumchloride,
vinylpyridiniumhalogenide, N-vinylimidazole or N-
15 vinylimidazolium halogenide.



4. Method according to at least one of claims 1 to 3,
characterised in that the stabiliser is used in
quantities of 1 to 10% by mass with respect to the mass
5 of the monomers used.

5. Method according to at least one of claims 1 to 4,
characterised in that polymerisation is carried out in a
temperature range from 30 to 90°C.

10

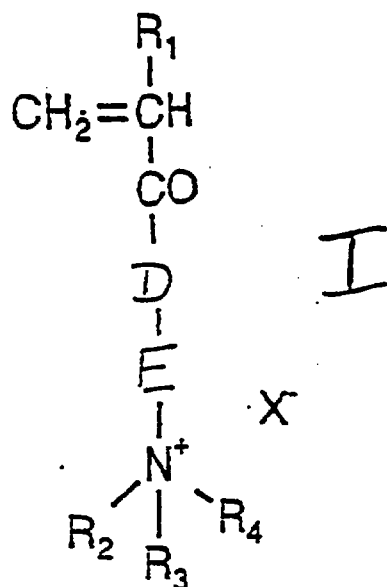
6. Stabiliser for carrying out the method according to
at least one of claims 1 to 5,
characterised in that the stabiliser is a block copolymer
from a cationic vinyl monomer and ethylene oxide.

15

7. Stabiliser according to claim 6,
characterised in that the cationic block of the block
copolymer is formed from monomers of the general formula
I:



* C L M S *



the residues having the meaning ascribed to them in claim 2.

5

8. Stabiliser according to claim 6, characterised in that the cationic block of the block copolymers is formed from the monomers diallyldimethylammoniumchloride, vinylpyridinium halogenide, N-vinylimidazole, N-vinylimidazolium halogenide.

10

9. Stabiliser according to at least one of claims 5 to 8,

15 characterised in that the cationic block of the block copolymer has a molar mass between 1,000 and 300,000 g/mol.



10. Stabiliser according to at least one of claims 6 to 9,
characterised in that the polyethylene oxide block of the
block copolymer has a molar mass between 200 and 20,000
5 g/mol.



* C L M S *