

Title (en)

METHOD OF CLEANING PIPELINES AND CONTAINERS IN THE FOOD INDUSTRY

Title (de)

REINIGUNG VON ROHRLEITUNGEN UND BEHÄLTERN IN DER LEBENSMITTELINDUSTRIE

Title (fr)

NETTOYAGE DE CONDUITES ET DE RECIPIENTS DANS L'INDUSTRIE ALIMENTAIRE

Publication

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Application

EP 97945841 A 19971015

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Abstract (en)

[origin: DE19643552A1] The invention concerns a method of cleaning pipelines and containers in the food industry and is characterized in that a cleaning agent in the form of an aqueous solution of cleaner concentrates which can be thickened by water is applied to the inner surfaces to be cleaned and, after a reaction time of between 1 and 60 minutes, is rinsed off with water.

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Citation (examination)

- GRASSHOFF, A.: "METHODEN DER REINIGUNG IN MILCHWIRTSCHAFTLICHEN BETRIEBEN", SÖWF, vol. 124, 1998, pages 1037 - 1043
- HIELSCHER, C.: "REINIGUNG UND STERILISATION VON ANLAGEN UND GERÄTEN", SÖFW, vol. 116, September 1990 (1990-09-01), pages 611 - 616
- HYDE, J.: "NEW DEVELOPMENTS IN CIP PRACTICES", CHEM. ENG. PROG., vol. 81, 1985, pages 39 - 41

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