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## ABSTRACT



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It is an object of the present invention to provide a method of fixing and eliminating fluorine and phosphorus in waste water including a fluorophosphate compound, which comprises decomposing fluorophosphoric acid into fluorine and phosphorus so as to fix and eliminate fluorine and phosphorus, and thereby the concentrations of fluorine and phosphorus in waste water can be reduced to a lower level.

10       The present invention is characterized by a method of fixing and eliminating fluorine and phosphorus in waste water including a fluorophosphate compound, characterized in that hydrochloric acid is added to said waste water including said fluorophosphate compound so that the concentration of  
15       hydrochloric acid in said waste water can be in the range of 2% to 10% by weight; and said waste water to which hydrochloric acid is added is heated at a temperature of 80°C to the boiling point of said waste water so as to decompose said fluorophosphate compound into hydrogen fluoride and phosphoric  
20       acid, while hydrogen chloride gas in a treating vessel in which said waste water is contained is introduced into a condenser which is provided out of said treating vessel; and then a calcium salt is added to said waste water after decomposition so as to fix and eliminate fluorine and phosphorus.