

ABSTRACT

The present invention provides a method for performing a purification treatment on a harmful substance-containing liquid, the method enabling an efficient purification treatment of a harmful substance-containing liquid by using dissolved ozone being an oxidizing agent with high level of safety, and a harmful substance-containing liquid purification treatment apparatus for carrying out the method. A method for performing a purification treatment on a harmful substance-containing liquid, the method comprising adding and mixing dissolved ozone into a harmful substance-containing liquid containing a harmful substance, thereafter bringing the harmful substance-containing liquid into contact with a transition metal-containing oxide having a BET specific surface area of $80 \text{ m}^2/\text{g}$ or more, adsorbing ozone, and adsorbing a harmful substance, and then allowing the harmful substance-containing liquid to flow to accelerate oxidation of the harmful substance by dissolved ozone, thereby performing a highly efficient oxidative decomposition, and a harmful substance-containing liquid purification treatment apparatus for carrying out the method.