ABSTRACT

To provide a secondary circulation cooling system using a composition which is less influential over the environment as a secondary coolant, is non-inflammable, has a small pressure drop particularly at a low temperature and has a large heat transfer coefficient.

A secondary circulation cooling system comprising a primary cooling means 1 using a primary coolant, a secondary circulation cooling means 13 using a secondary coolant and a heat exchange means 6 to carry out heat exchange between the primary coolant and the secondary coolant, characterized in that a composition comprising a fluorinated ether such as $CF_2HCF_2OCH_2CF_3$, and an alcohol such as ethanol, is used as the secondary coolant.