compound is less than 1.0 mass%, the content of the fine bubbles of the ozone in the ozone water N becomes low. In addition, even when the content of the magnesium compound is set to 4.0 mass% or more, the content of the fine bubbles of the ozone in the ozone water N is hardly increased, but the cost of the magnesium compound itself is increased. Accordingly, in the ozone water production apparatus 100 and the ozone water production method, the ozone water N containing the fine bubbles of the ozone at a high content can be produced at low cost by generating the fine bubbles of the ozone in the magnesium solution M in which 1.0 mass% or more and less than 4.0 mass% of the magnesium compound is dissolved in water.

[0030] In addition, unlike bittern, the composition of the magnesium compound is stable. Accordingly, in the ozone water production apparatus 100 and the ozone water production method, the ozone water N containing the fine bubbles of the ozone at a stable content can be produced by generating the fine bubbles of the ozone in the magnesium solution M in which the magnesium compound is dissolved in water. Specifically, in the ozone water production apparatus 100 and the ozone water production method, the ozone water N containing the fine bubbles of the ozone at a target content can be produced.

[0031] In addition, when substances other than the magnesium compound are mixed in the solution, it cannot be said that the sterilization performance always deteriorates.