CLAIMS:

1. An ethylene-vinyl alcohol copolymer composition comprising:
(A) an ethylene-vinyl alcohol copolymer;
(B) a compound containing a conjugated polyene structure; and
(C) an iron compound;

wherein the conjugated polyene structure-containing compound (B) is present in an amount of 1 to 10,000 ppm based on the weight of the ethylene-vinyl alcohol copolymer composition, and

wherein the iron compound (C) is present in an amount of 0.01 to 20 ppm on a metal basis based on a weight of the ethylene-vinyl alcohol copolymer composition.

2. The ethylene-vinyl alcohol copolymer composition according to claim 1, wherein a weight ratio of the amount of the conjugated polyene structure-containing compound (B) to the amount of the iron compound (C) on a metal basis is (conjugated polyene structure-containing compound (B))/(iron compound (C)) = 0.2 to 50,000.

3. Pellets comprising the ethylene-vinyl alcohol copolymer composition according to claim 1 or 2.

4. A multilayer structure comprising a layer which comprises the ethylene-vinyl alcohol copolymer composition according to claim 1 or 2.