CLAIMS

1. Ethylenediamine wherein the ethylenediamine is greater than about 99.9 weight percent pure and contains less than about 50ppm water and less than about 100ppb trace metals.

2. The ethylenediamine of claim 1 wherein the ethylenediamine contains less than about 50 ppb of aluminum, chromium, copper, iron, magnesium, manganese, molybdenum, nickel, titanium and zinc.

3. The ethylenediamine of claim 1 wherein the ethylenediamine contains less than about 10ppm of water.

4. The ethylenediamine of claim 1 wherein the ethylenediamine contains less than about 5ppm of water.

5. The ethylenediamine of claim 1 wherein the ethylenediamine contains less than about 1ppm of water.

6. The ethylenediamine of claim 1 wherein the ethylenediamine contains less than about 5ppm of halides.

7. The ethylenediamine of claim 6 wherein the halide is chlorine.

8. The ethylenediamine of claim 1 wherein the ethylenediamine contains less than about 5ppb of alkali metals.

9. The ethylenediamine of claim 8 wherein the alkali metal is sodium.

10. A method for treating ethylenediamine comprising contacting ethylenediamine with a molecular sieve comprising type 3A zeolite under conditions sufficient to reduce the amount of water in the ethylenediamine to less than about 50ppm; and, distilling the ethylenediamine under conditions sufficient to reduce the amount of trace metals to less than about 100ppb.

11. The method of claim 10 wherein the ethylenediamine is greater than about 99.9 weight percent pure.

12. The method of claim 10 wherein the contacting comprises passing ethylenediamine through a bed of molecular sieve comprising type 3A zeolite.

13. A method for treating a container comprising introducing an inert gas into the container while heating the container to a temperature of greater than about 120°C, introducing the ethylenediamine of Claim 9 into the container; and removing the ethylenediamine.

14. The method of claim 13 wherein the container comprises stainless steel.

15. A container containing the ethylenediamine of Claim 2.

16. The container of Claim 15 further comprising an inert headspace gas comprising at least one member selected from the group consisting of helium, nitrogen, argon, and mixtures thereof.