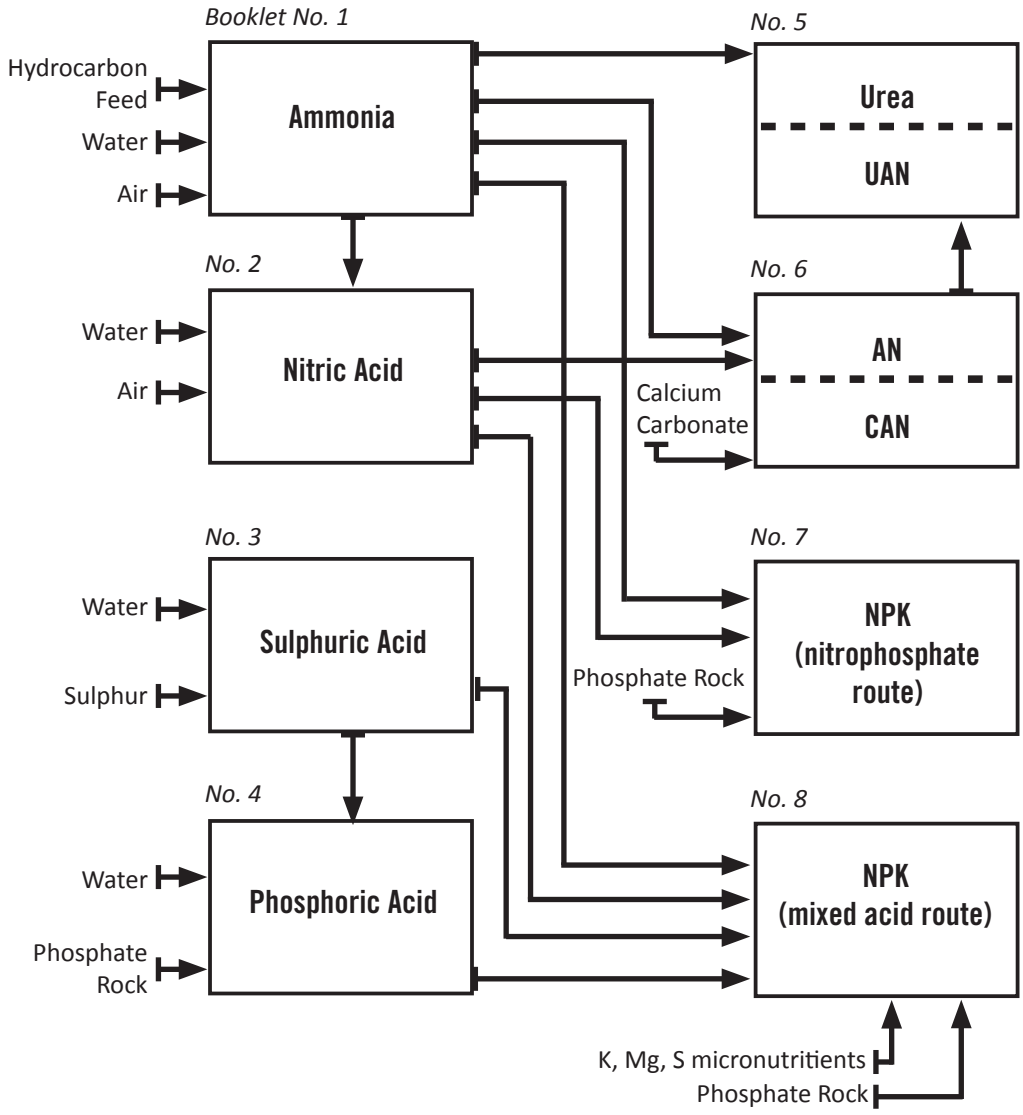
# Fertilizers Europe BAT Booklets



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## 2. Calcium Ammonium Nitrate (CAN)

### 2.1 Identification

| | |
|---|---|
| Chemical name | : Mixture of ammonium nitrate and calcium Carbonate<br>Calcium ammonium nitrate, CAN |
| Composition | : Mixture of ammonium nitrate with calcium carbonate and/or dolomite containing not more than 80% of ammonium nitrate |

### 2.2 Hazards to Man and the Environment

**To man**

CAN is basically harmless when handled correctly.

**To the environment**

CAN is basically harmless when handled correctly.

### 2.3 Physical and Chemical Properties

| | |
|---|---|
| Appearance | : White, off-white or grey granules or prills |
| Odour | : Odourless |
| pH water solution (10g/100ml) | : >4.5 |
| Explosive properties | : Not explosive as per EEC test A14. The fertilizer has a very high resistance to detonation. This resistance is decreased by the presence of contaminants and/or high temperatures |
| Oxidising properties | : Not classified as oxidising material according to EEC Directive 88/379/EEC. Can support combustion |
| Solubility in water | : $NH_4NO_3$ highly soluble<br>$CaCO_3/MgCO_3$ sparingly soluble |
| Bulk density | : 900-1,100kg.$m^{-3}$ |



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product stewardship
fertilizers

Best Available Techniques Booklets were first issued by Fertilizers Europe in 1995. Second revised edition 2000.

1. Production of Ammonia
2. Production of Nitric Acid
3. Production of Sulphuric Acid (in collaboration with ESA)
4. Production of Phosphoric Acid
5. Production of Urea and Urea-Ammonium Nitrate
6. Production of Ammonium Nitrate and Calcium Ammonium Nitrate
7. Production of NPK Compound Fertilizers by Nitrophosphate Route
8. Production of NPK Compound Fertilizers by Mixed Acid Route

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