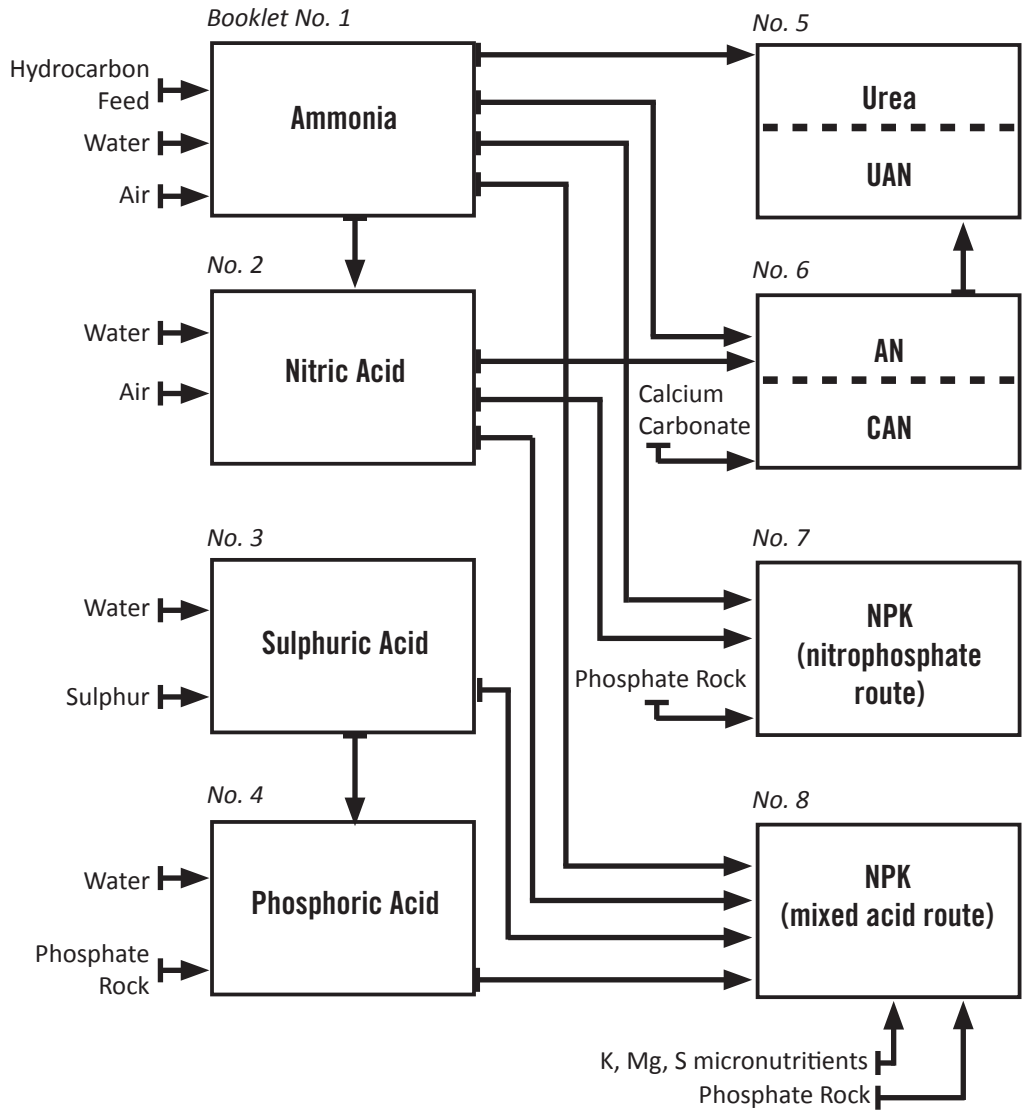


Fertilizers Europe BAT Booklets





APPENDIX 2 GENERAL PRODUCT INFORMATION ON PHOSPHORIC ACID

1. Identification

Chemical name	: Orthophosphoric acid
Commonly used synonyms	: Phosphoric acid, 40-60% Merchant grade acid
C.A.S. Registry number	: 7664-38-2
EINECS Number	: 231-633-2
EINECS Name	: Orthophosphoric acid
Molecular formula	: H_3PO_4

3. Hazards to Man and the Environment

To man

Phosphoric acid is corrosive to all parts of the body.
Contact with the skin can cause redness and burns.
Splashes in the eyes cause irritation and burns.
Acid mists may cause throat and lung irritation.

To the environment

Phosphoric acid is harmful to aquatic life.

3. Physical and Chemical Properties

Appearance	: Brownish/greenish viscous liquid
Odour	: Slight acid odour
pH (no dilution)	: < 1
Freezing point	: $-17.5^{\circ}C$ (75%)
Boiling point	: $133^{\circ}C$ (75%)
Auto-ignition temperature	: Not applicable
Vapour pressure	: 267Pa at $20^{\circ}C$
Solubility in water	: Miscible in all proportions
Density	: $1.58g.cm^{-3}$ at $15.5^{\circ}C$ (75%)











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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