

## C05C

### NITROGENOUS FERTILISERS

#### Definition statement

*This subclass/group covers:*

- Fertiliser compositions containing nitrogen, processes and apparatus for obtaining them;
- Ammonium nitrate fertilisers;
- Fertilisers containing other salts of ammonia or ammonia itself;
- Fertilisers containing other nitrates;
- Fertilisers containing calcium or other cyanamides;
- Fertilisers containing urea or urea compounds;
- Other nitrogenous fertilisers.

#### Relationship between large subject matter areas

Treating manure; apparatus for distributing fertiliser [A01C](#).

Soil-cultivation substrates [A01G 9/00](#).

Plant growth regulators [A01N](#).

Soil-conditioning or soil-stabilising materials [C09K 17/00](#).

Any apparatus for preparing fertilisers may be classified in those areas of C05 that are specific for such apparatus – e.g., [C05B 1/10](#) – apparatus for the manufacture of superphosphates. Otherwise, individual apparatus should be classified in the relevant area of the IPC, e.g., [F26B 7/00](#).

Whilst the subject matter of [C05C](#) deals with nitrogenous fertilisers per se, [A01C 3/00](#) deals with methods of treating manure/methods of manuring per se and [A01C 21/00](#) deals with methods of fertilising per se.

#### References relevant to classification in this subclass

*This subclass/group does not cover:*

Inorganic fertilisers not covered by subclasses <a href="#">C05B</a> , <a href="#">C05C</a> ; fertilisers producing carbon dioxide	<a href="#">C05D</a>
Organic fertilisers not covered by subclasses <a href="#">C05B</a> , <a href="#">C05C</a> , e.g.	<a href="#">C05F</a>

fertilisers from waste or refuse	
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## Informative references

Attention is drawn to the following places, which may be of interest for search:

Harrows with means for distributing fertilisers	<a href="#">A01B 25/00</a>
Fertilisers distributors	<a href="#">A01C 15/00</a>
Mowers combined with dispensing apparatus, e.g. for fertilisers	<a href="#">A01D 43/14</a>
Horticulture; cultivation of vegetables, flowers, rice, fruit, vines, hops or seaweed; forestry; watering	<a href="#">A01G</a>
Root feeders; injecting fertilisers into roots	<a href="#">A01G 29/00</a>
Processes or devices for granulating materials, in general	<a href="#">B01J 2/00</a>
Nitrogen, compounds thereof	<a href="#">C01B 21/00</a>
Ammonia; cyanogen; compounds thereof	<a href="#">C01C</a>

## Special rules of classification within this subclass

An ingredient in a mixture of fertilisers, or a single fertiliser which contains more than one of the chemical elements on which the subdivision is based, is classified only in the first of the appropriate places. Thus, a nitrophosphate or an ammoniated superphosphate is classified in [C05B](#) but not in [C05C](#), magnesium phosphate is classified in [C05B](#) but not in [C05D](#), and calcium cyanamide in [C05C](#) but not in [C05D](#).

Information relative to the form in which the fertilizer is presented, e.g. granulation, coating, etc. is always given in addition to the chemical composition of the fertilizers.

Any ingredient in a mixture, which is considered to present information of interest for search, is also classified using a combination of classification symbols. If a document concerns embodiments comprising mixtures whose

elements are covered individually by different subclasses, groups or subgroups, the document is classified with a Combination-set.

The following rules apply:

- The first element of the Combination-set corresponds to the first relevant (sub)group mentioned in the classification scheme independently of the importance or relevance of the element in the whole fertilizer mixture;
- the following element or elements of the Combination\_set are added sequentially in the order in which they appear in the classification scheme to the first element using a ",".

Example: a fertilizer containing a mixture of superphosphate ([C05B 1/02](#)), ammonium nitrate ([C05C 1/00](#)) and potassium chloride ([C05D 1/02](#)) will be given the Combination-set [C05B 1/02](#), [C05C 1/00](#), [C05D 1/02](#).

Example: a fertilizer containing a mixture of either superphosphate ([C05B 1/02](#)) or ammonium nitrate ([C05C 1/00](#)) with potassium chloride ([C05D 1/02](#)) will be given the Combination-set [C05B 1/02](#), [C05D 1/02](#) and [C05C 1/00](#), [C05D 1/02](#).

## Glossary of terms

*In this subclass/group, the following terms (or expressions) are used with the meaning indicated:*

Fertiliser (fertiliser material)	Natural or artificial substance containing the chemical elements that improve growth and productiveness of plants.
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## Synonyms and Keywords

In patent documents the following expressions "fertiliser" and "plant nutrient" are often used as synonyms.

In patent documents the following expressions/words "Amendment", "Plant food", "Agricultural chemical" and "Fertiliser" are often used as synonyms.

In patent documents the expression/word "enrichment" is often used with the meaning "fertiliser".

The expression "soil amendment" is often used with the meaning "composition capable of modifying the chemical (pH) or physical (structure) condition of soils for agricultural purposes".

In patent documents the following expressions/words "Ammonia", "Ammonium

hydroxide" and "Ammonia water" are often used as synonyms.

### **C05C 1/00**

**Ammonium nitrate fertilisers**

### **C05C 3/00**

**Fertilisers containing other salts of ammonia or ammonia itself, e.g. gas liquor**

### **C05C 5/00**

**Fertilisers containing other nitrates**

### **C05C 7/00**

**Fertilisers containing calcium or other cyanamides**

### **C05C 9/00**

**Fertilisers containing urea or urea compounds**

### **C05C 11/00**

**Other nitrogenous fertilisers**