

C05G

MIXTURES OF FERTILISERS COVERED INDIVIDUALLY BY DIFFERENT SUBCLASSES OF CLASS C05; MIXTURES OF ONE OR MORE FERTILISERS WITH MATERIALS NOT HAVING A SPECIFIC FERTILISING ACTIVITY, e.g. PESTICIDES, SOIL-CONDITIONERS, WETTING AGENTS (organic fertilisers containing added bacterial cultures, mycelia, or the like [C05F 11/08](#); organic fertilisers containing plant vitamins or hormones [C05F 11/10](#)); FERTILISERS CHARACTERISED BY THEIR FORM

Definition statement

This subclass/group covers:

Mixtures of fertilisers belonging individually to different subclasses of C05;

Mixtures of one or more fertilisers with materials not having a specially fertilising activity;

Further uses of fertiliser, also the form in which it is presented;

Fertilisers in liquid form;

Mixtures of fertilisers with pesticides, soil conditioners, wetting agents or with agents affecting the nitrification of ammonium compounds or urea in the soil.

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](#).

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".

C05G 1/00

Mixtures of fertilisers belonging individually to different subclasses of C05

Special rules of classification within this group

This group is mainly used as additional information or for documents difficult to classify anywhere else in the previous groups of this classification as it would be the case for unspecific mixtures of organic and inorganic materials .

In the case of mixtures with well defined components, combination classes giving specific information about these components will be used instead.

C05G 3/00

Mixtures of one or more fertilisers with materials not having a specially fertilising activity

Definition statement

This subclass/group covers:

Fertilisers mixed with substances not encompassed under the finer classification given below. Some examples of substances classified in this group are : colorants and pigments, corrosion inhibitors, odours, preservatives, magnetic materials etc.

Special rules of classification within this group

Whether a fertiliser is characterised by the materials it is prepared from and the form which it presents a class pertinent to both aspects should be given.

C05G 3/0088

[N: to avoid the fertiliser being reduced to powder; for avoiding agglomeration]

Informative references

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

Using agents to prevent the granules sticking together; Rendering	B01J 2/30
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particulate materials free flowing in general, e.g. making them hydrophobic	
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C05G 3/04

with soil conditioners

Definition statement

This subclass/group covers:

Mixtures of fertilisers with other compounds mainly to improve the physical structure or water retention capacity of soils for agricultural purposes. These compounds are e.g. water retaining polymers, sand or clay materials.

References relevant to classification in this group

This subclass/group does not cover:

Soil-conditioning or soil-stabilising materials for other than agricultural purposes	C09K 17/00
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