

## IFA Workshop on Enhanced-Efficiency Fertilizers

# Registration of fertilisers in Germany and in the European Union

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Bundesministerium für  
Verbraucherschutz, Ernährung  
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### *Article 3* **EC Fertiliser**

A fertiliser belonging to a type of fertilisers listed in Annex I and complying with the conditions laid down in this Regulation, may be designated 'EC fertiliser'.

The designation 'EC fertiliser' shall not be used for a fertiliser which does not comply with this Regulation.

*Regulation (EC) No. 2003/2003 relating to fertilisers*



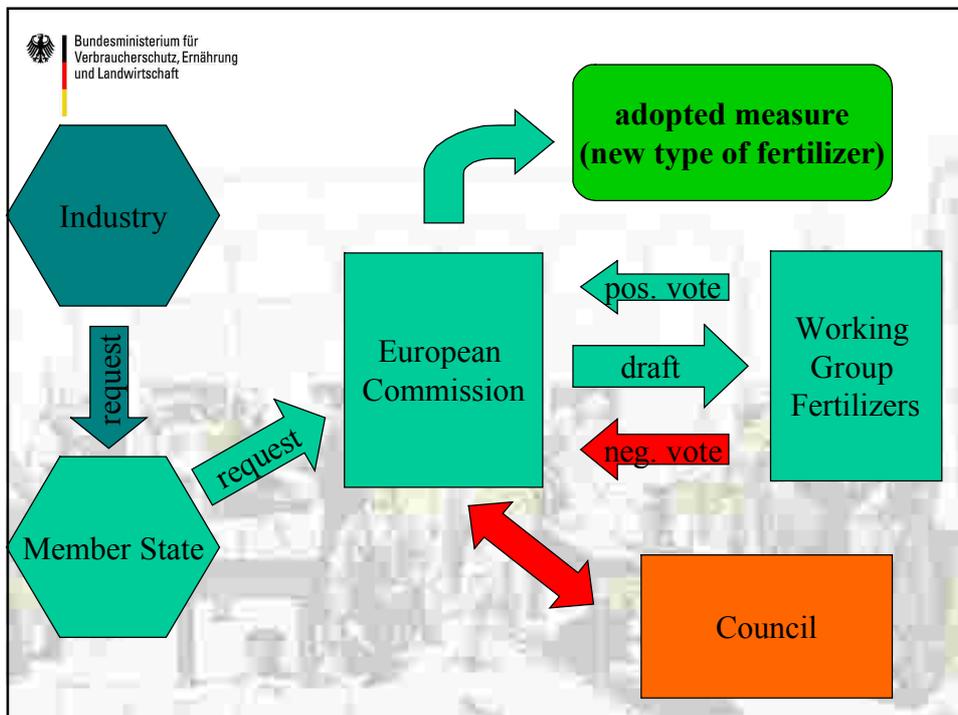
### Article 14

## Fertiliser requirements

A **type of fertiliser** may only be included in Annex I if:

- a) it provides **nutrients** in an effective manner;
- b) relevant sampling, **analysis**, and if required, test **methods** are being provided.
- c) under normal conditions of use it does **not adversely affect human, animal, or plant health, or the environment**.

Regulation (EC) No. 2003/2003 relating to fertilisers



*Annex I; A.1.; No 16*

## **Nitrogenous fertilisers**

**Ammonium sulphate**  
with **nitrification inhibitor** (dicyandiamide)

20 % Nitrogen expressed as total nitrogen  
Minimum ammoniacal nitrogen content: 18 %  
Minimum content of nitrogen from  
dicyandiamide: 1,5 %

*Regulation (EC) No. 2003/2003 relating to fertilisers*

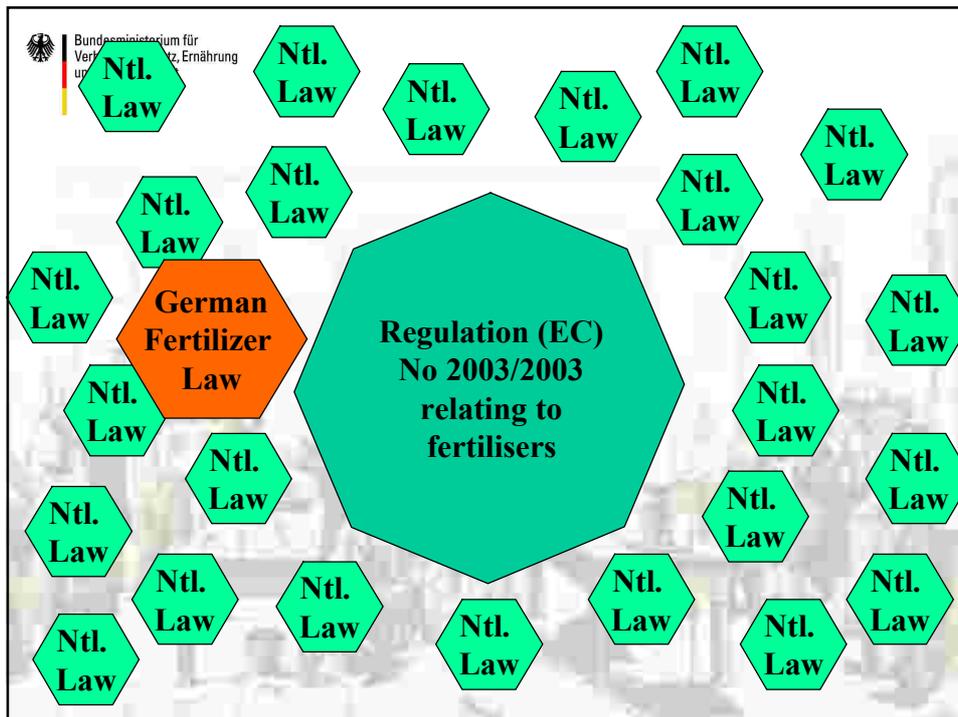
*Annex I; A.1.; No 17*

## **Nitrogenous fertilisers**

**Ammonium sulphonitrate**  
with **nitrification inhibitor** (dicyandiamide)

24 % Nitrogen expressed as total nitrogen  
Minimum nitric nitrogen content: 3 %  
Minimum content of nitrogen from  
dicyandiamide: 1,5 %

*Regulation (EC) No. 2003/2003 relating to fertilisers*

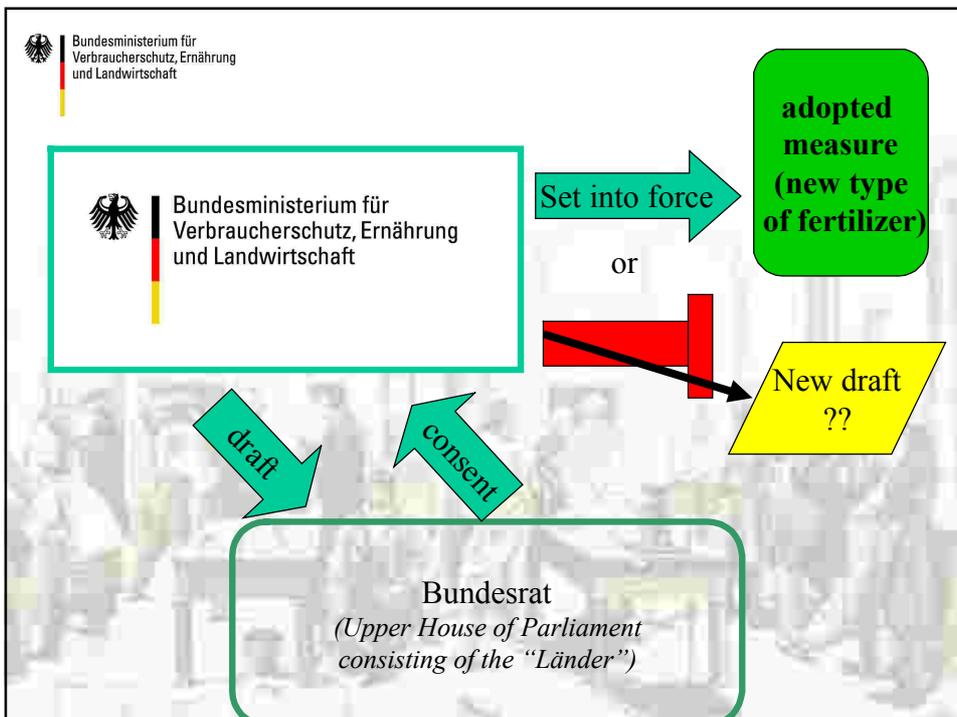
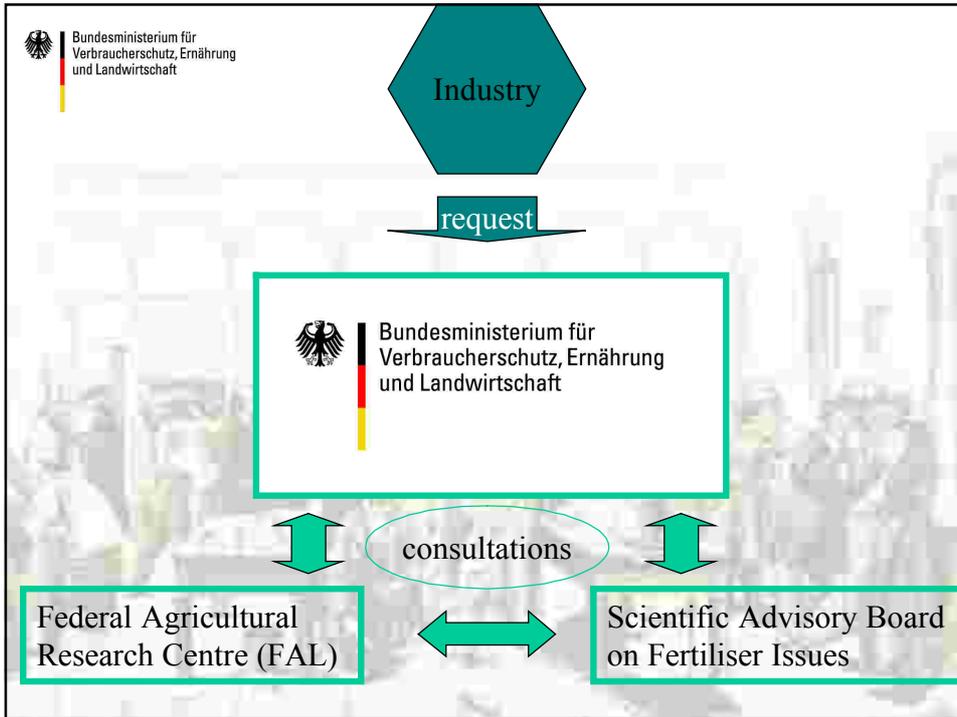


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### Preconditions for the authorisation of fertilisers

- preserve **soil fertility**,
- promote the **growth of arable crops**,
- increase the **yield**,
- improve the **quality**,
- do not jeopardise **human health and the health of domestic animals** and
- do not damage the **ecological balance**.

German Fertiliser Act



## Types of fertilizers

- A. inorganic straight primary nutrient fertilisers (N, P, K, Mg, Ca, S)
- B. inorganic compound primary nutrient fertilisers (NPK, NP, NK, PK)
- C. organic and organic-mineral fertilisers
- D. fertilisers with micro-nutrients
- E. fertilisers with a particular purpose,

German Fertiliser Ordinance

## Annex 2

Table 2 **Nitrification inhibitors (I)**

	Substance	Minimum content in % related to the total content of ammonium, carbamide and cyanamide nitrogen	Other provisions
1	<b>Dicyandiamide</b>		
2	<b>Compound consisting of dicyandiamide and ammonium thiosulphate</b>	Dicyandiamide: 7.7 Ammonium thiosulphate: 4.8	
3	<b>Compound consisting of dicyandiamide and 3-methylpyrazole</b>	2.0	Compound in a ratio of 15:1 The level of methylpyrazole in the fertiliser may not exceed 0.5 %

German Fertiliser Ordinance

## Annex 2

Table 2 Nitrification inhibitors (II)

	Substance	Minimum content in % related to the total content of ammonium, carbamide and cyanamide nitrogen	Other provisions
4	Compound consisting of dicyandiamide and 1 H-1,2,4-triazole	2.0	Compound in a ratio of 10:1
5	3,4-Dimethylpyrazole phosphat	0.8	
6	Compound consisting of 1 H-1,2,3-triazole and 3-methylpyrazole	2.0	Compound in a ratio of 2:1

German Fertiliser Ordinance

## Annex 2

### Additional Standards

- Authorised nitrification inhibitors may be incorporated if the fertilisers contain a type-determining nitrogen content, with a share of at least 55 % of ammonium nitrogen, carbamide nitrogen or cyanamide nitrogen in the total nitrogen content and if they have not been designated as "EC FERTILISERS".
- If nitrification inhibitors are incorporated, the designation of the type of fertiliser must be supplemented by the indication "with nitrification inhibitor [...]", specifying the nitrification inhibitor.

German Fertiliser Ordinance

## requirements for the use of coating substances

- The respective type definition of the fertiliser must expressly provide for this option,
- The nitrogen forms of nitrate -, ammonium-, carbamide -, cyanamide- and dicyandiamide nitrogen as well as crotonylides-, formaldehyde-, isobutylidene and acetylene urea,
- Water-soluble, neutral-ammonium citrate soluble and water-soluble phosphate ( $P_2O_5$ )

## requirements for the use of coating substances

- Type designation must be supplemented by indication "coated" (if at least 90 % of the product is coated),  
"partly coated" (if at least 25 % of the product is coated),  
"with coated [...]", "with partly coated [...]" as well as by the indication of the coated nutrients
- The share of the coated fertiliser or of the coated nutrient in the entire fertiliser must be specified



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**Thank you for your attention !**

